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Harold L. Ickes, Secretary

GEOLOGICAL SURVEY

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Bulletin 930-B

SPIRIT LEVELING IN ILLINOIS

1896-1941

PART 2: WEST-CENTRAL ILLINOIS

Prepared in cooperation with the

STATE OF ILLINOIS

DEPARTMENT OF REGISTRATION AND EDUCATION
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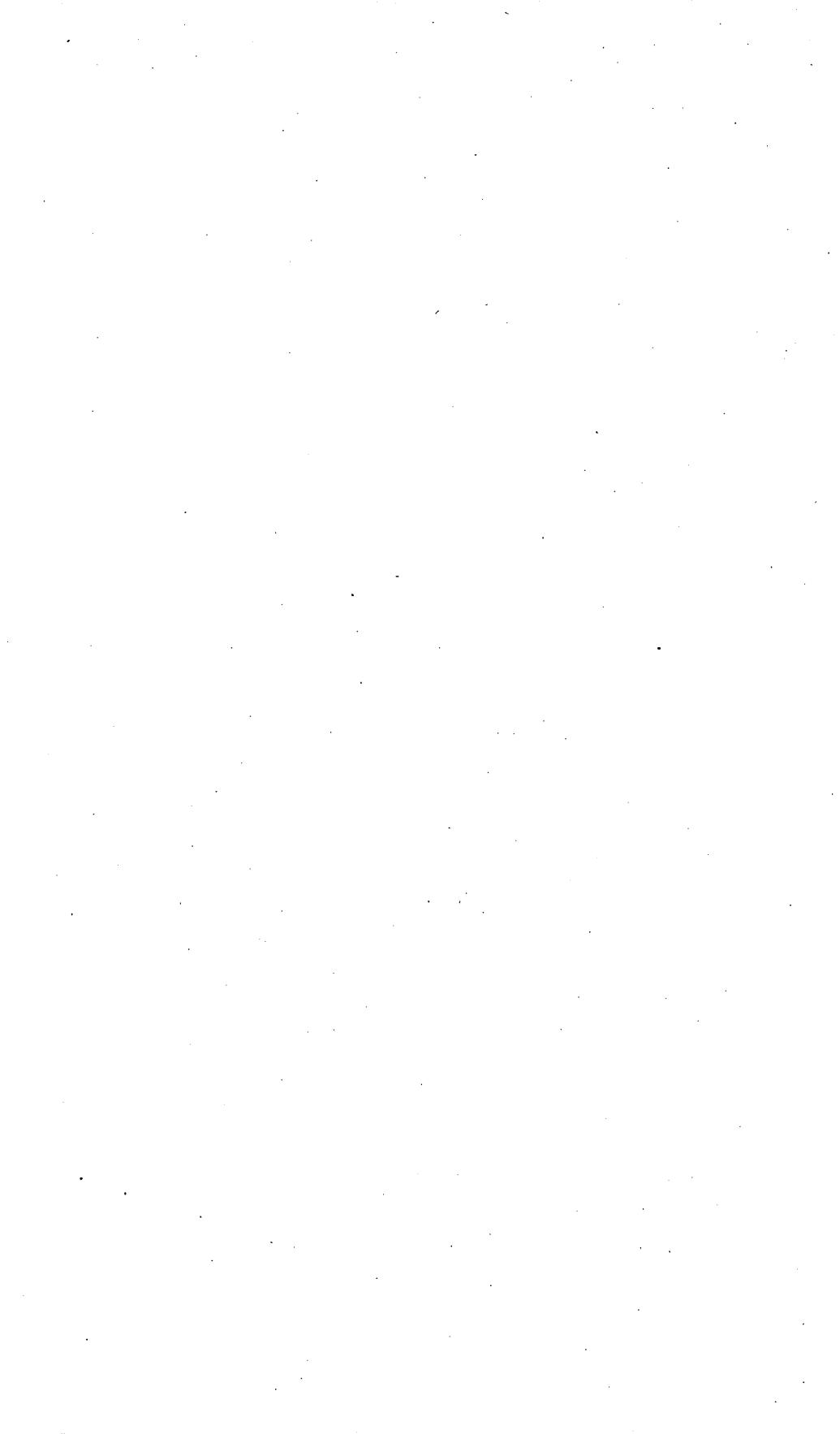
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SPIRIT LEVELING IN ILLINOIS

PART 2. WEST-CENTRAL ILLINOIS, 1896-1941

INTRODUCTION

Scope of report.—This bulletin, which for convenience is to be published in four parts, contains the results of all spirit leveling done by the Geological Survey in Illinois, including those heretofore published. (See page 489.) Each of the parts deals with one of four sections into which the State has been divided for this purpose and which have been designated southern, east-central, west-central, and northern Illinois. In each part, descriptions of the points for which figures of elevation have been determined are listed according to the quadrangles in which the points occur. In addition to the results of leveling by the Geological Survey the bulletin includes leveling by the State Geological Survey and by the Civil Works Administration.

Classification of leveling.—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors.

First-order leveling¹ consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula

$$0.017\sqrt{\text{length of section in miles.}}$$

All corrections for rod error, temperature, and unbalanced sights are applied, as well as the orthometric corrections for convergence toward the poles of level surfaces of different elevations.

Second-order leveling, according to regulations of the Geological Survey, comprises lines leveled twice with reliable instruments, though not necessarily of the most improved type. Closures are not allowed to exceed

$$0.035\sqrt{\text{length of section in miles.}}$$

¹ See Avers, H. G., Manual of first-order leveling: U. S. Coast and Geodetic Survey Special Pub. 140, 1929.

Third-order leveling is made up of lines that are run, either with first-order equipment or with an engineer's wye level and rods of the New York type, in single-line circuits that are required to close within the limits, in feet, of

$$0.05\sqrt{\text{length of circuit in miles.}}$$

This is equivalent to

$$0.071\sqrt{\text{length of section in miles}}$$

if the line is leveled twice.

All leveling done by the Geological Survey in Illinois is of third-order accuracy except as otherwise stated.

Adjustments.—The adjustment of a net of leveling begins with the first-order lines. Most of these lines in both the United States and Canada have already been combined in a general net, and the orthometric differences derived from the observed values by correction for the convergence of level planes toward the north have been adjusted by least squares to remove accidental closure errors. The latest adjustment of this kind was made in 1929 by the Coast and Geodetic Survey and is known as the "1929 general adjustment of first-order leveling." This adjustment included the first-order lines in Illinois (pl. 2), and the elevations thus derived are the fundamental references for elevations determined by second- and third-order nets. The third-order leveling of the Geological Survey in Illinois has been adjusted by determining weighted mean elevations for new junction points and prorating the errors of each link. The weights are taken as the reciprocals of lengths of links. The third-order net has thus been brought into agreement with the best information available for the results of the fundamental first-order leveling, although the published figures of elevation may be changed slightly by future adjustments of the level net.

Bench marks.—The bench marks used by the Geological Survey (pl. 1) are of two general classes—principal and supplementary. Principal bench marks are placed at more or less regular intervals along a level line, at sites offering them protection from disturbance and affording favorable conditions for their future recovery. They are usually bronze or aluminum tablets, iron posts with bronze caps, or copper bolts.

The tablets (A, B, and C, pl. 1) are circular in shape, measure $3\frac{1}{8}$ inches in diameter, and taper from a thickness of three eighths of an inch at the center to about a quarter of an inch near the rounded edge. In the earlier years of the Survey's leveling, many of the tablets were made of aluminum. They were light in weight and easily transported. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for

tablets was eventually discarded. The earliest tablets were made of bronze, which is the material now specified for standard tablets. Each tablet is cast with a 3-inch shank extending from the center of its reverse side, by means of which it is held in place, and each bears an inscription on its face. The inscriptions on the existing tablets differ in many details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U. S. Geological Survey" and "Elevation above sea" and with a large or small cross at the center, which indicates the fiducial point for position or elevation. On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some, the inscription includes a triangle, which signifies a located point, enclosing a small cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as bench marks but also as triangulation- or traverse-station marks. The inscription on most of the existing principal bench marks includes the warning "250 dollars fine for disturbing this mark," but the latest design omits this phrase and adds the sentence "For information write the Director, Washington, D. C."

If a tablet is set to mark a transit-traverse station, the traverseman stamps upon it with steel dies letters indicating this use of it such as "Prim Trav Sta," "P T S," or "T T," as well as his own identifying letter or letters, the serial number of the station, and the year. If a tablet is set as a bench mark, the levelman stamps it with his identifying letter or letters, the serial number of the bench mark, and the year. He may at the same time stamp upon it the figures of elevation to the nearest foot, or these figures may be added later. A tablet may be used both as a traverse-station mark and as a bench mark. The engineer who establishes the mark stamps it as noted above and records the stamping with the description to facilitate identification. Engineers who use the mark in subsequent surveys do not alter the original stamping nor add their own stampings with the exception of figures of elevation.

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in the bulletin instead of accepting the stamped figures. If the appropriate bulletin is not conveniently accessible, a request

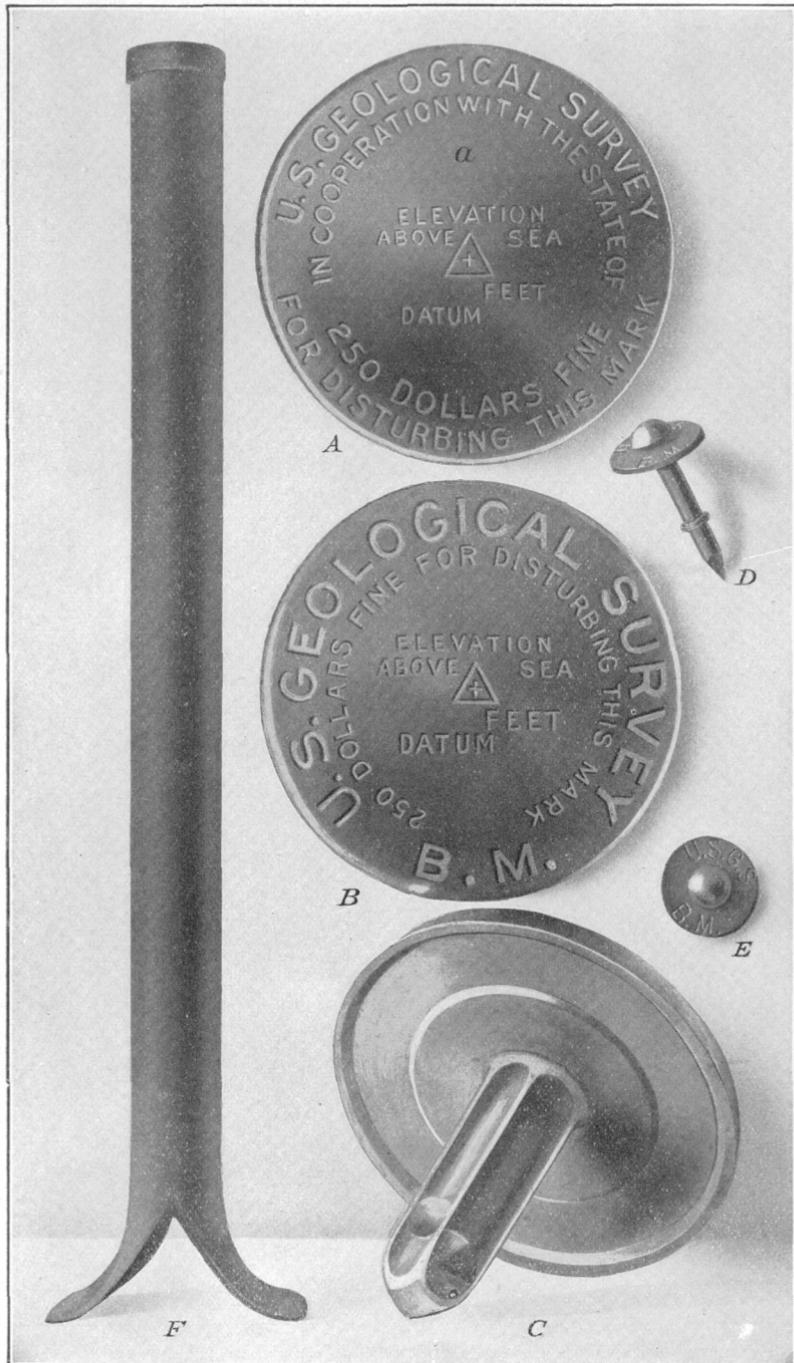
for the desired information may be addressed to the Director of the Geological Survey, United States Department of the Interior, Washington, D. C.

The tablet, of whatever style, is cemented into a hole drilled in solid rock or in the wall of a public building, bridge abutment, or other masonry structure. Where masonry or rock is not available the tablet is set in the top of a reinforced concrete post, which may be either precast or mixed and molded at the selected site. The posts are about 8 inches square or 8 inches in diameter at the top and larger at the base. They are generally set so as to project about 6 inches above ground and are made sufficiently long to reach below the frost line.

The second form of principal bench mark (F, pl. 1), for use where masonry or rock is not available, consists of a hollow wrought-iron post to the top of which is riveted a bronze cap bearing the same general inscriptions as the tablets. These iron posts measure 4 feet in length and 3½ inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. Few iron posts have been set since 1920. They have proved impracticable, as they are easily disturbed and are eventually destroyed by rust at the ground level.

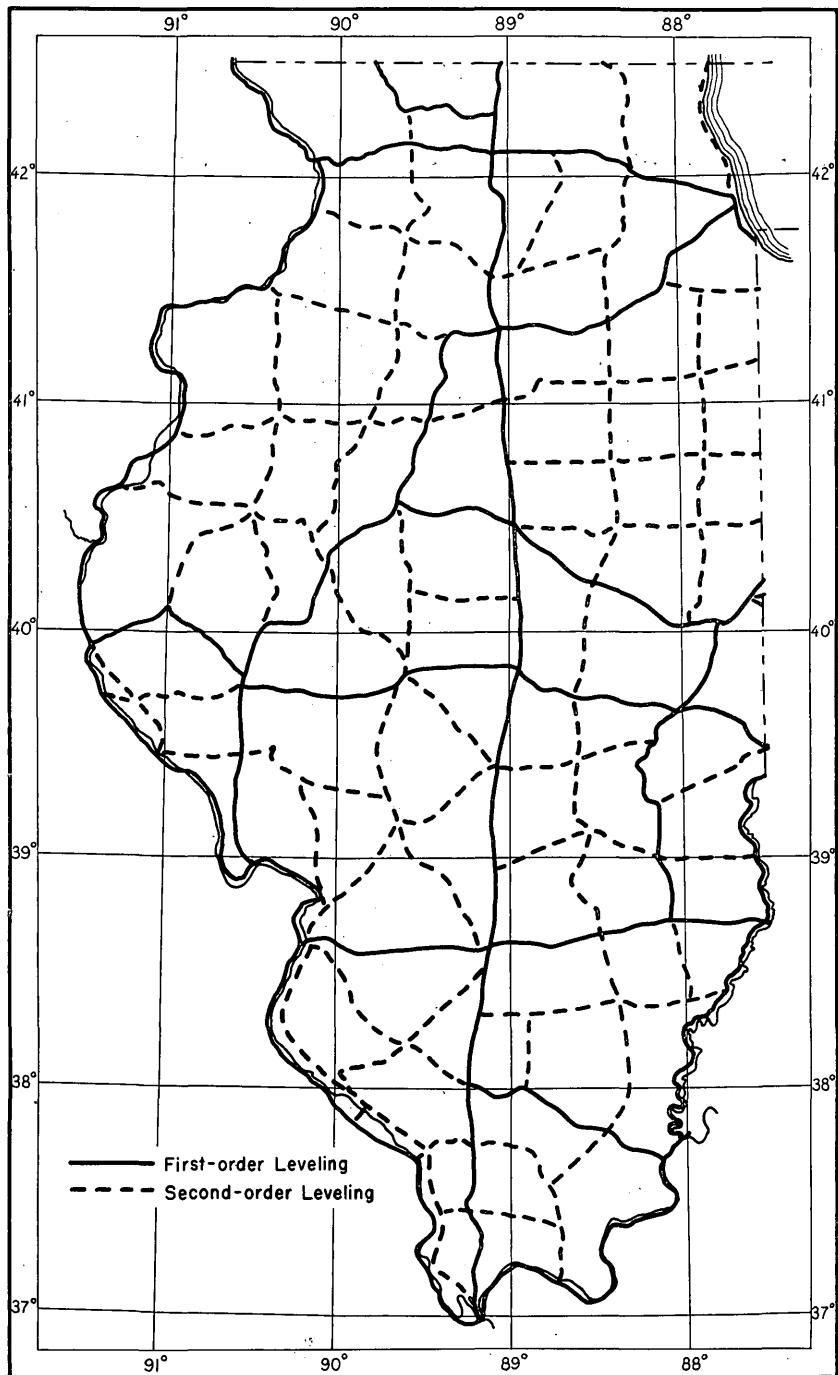
The third form of principal bench mark is a copper bolt designed to be wedged into a drill hole in rock or masonry and further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diameter, and has a slot at the bottom end into which fits a brass wedge. The wedge serves to expand the lower part of the bolt so that after the bolt has been driven nearly its full length into the hole it cannot be easily removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. The inscription is made up of the letters "U S G S," the letters indicating the datum used, the figures of elevation, and the abbreviated word "Ft." This form of bench mark has not been extensively used.

The principal bench mark used on Civil Works Administration projects is a bronze disk similar to the standard tablet used by the Geological Survey. The disk is 3 inches in diameter and has a 2½-inch shank. Near the center of the convex face of the disk is a small indentation which bisects a grooved line 1½ inches long. The indentation serves as the fiducial point for position on transit-traverse surveys. The line, which lies in a horizontal plane when the disk happens to be set vertically in the walls of structures, is the fiducial line for which figures of elevation are determined by spirit leveling. The disk is cast with the inscription "U. S. Coast & Geodetic Survey and State Survey Station No Elevation Feet." Figures indicating the serial number of the station and the elevation

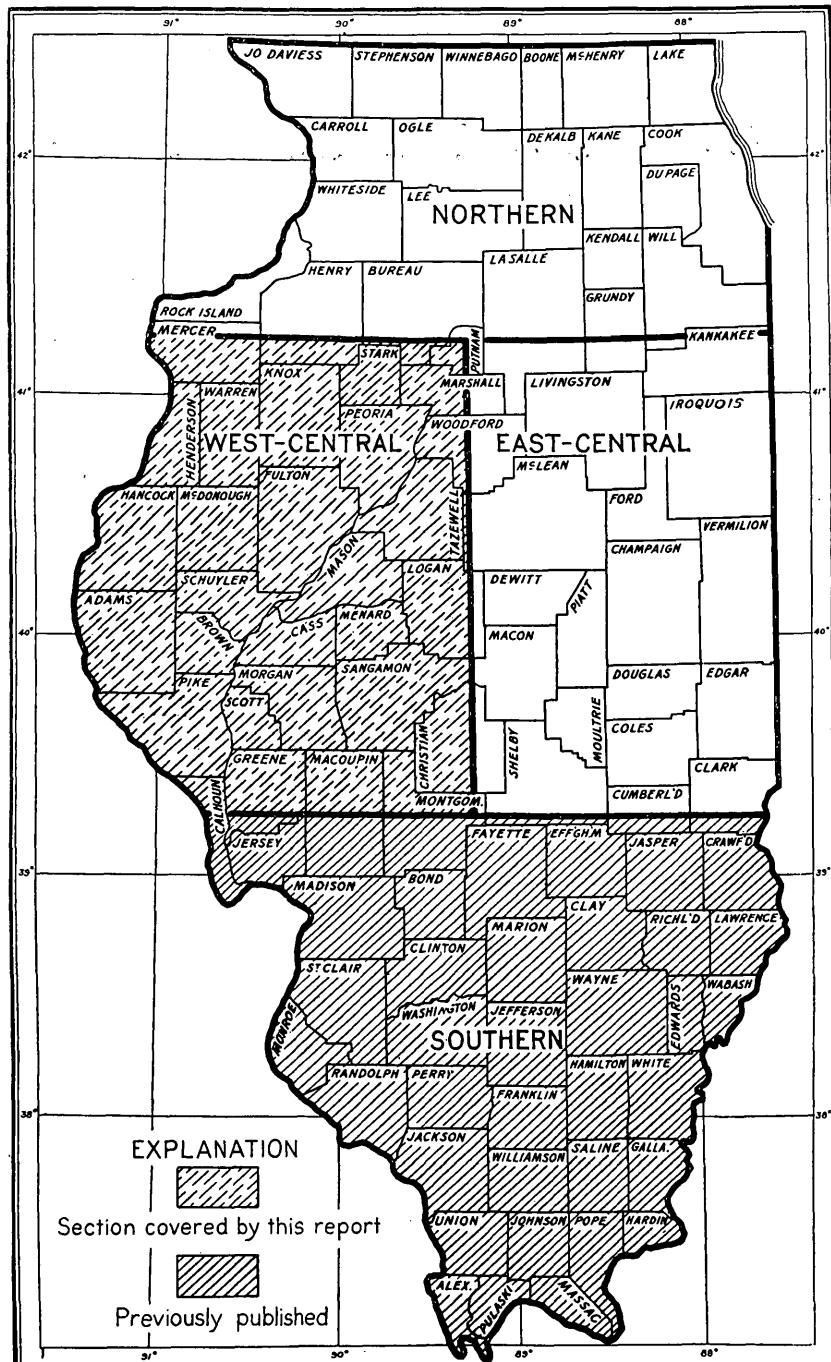


STANDARD GEOLOGICAL SURVEY BENCH MARKS.

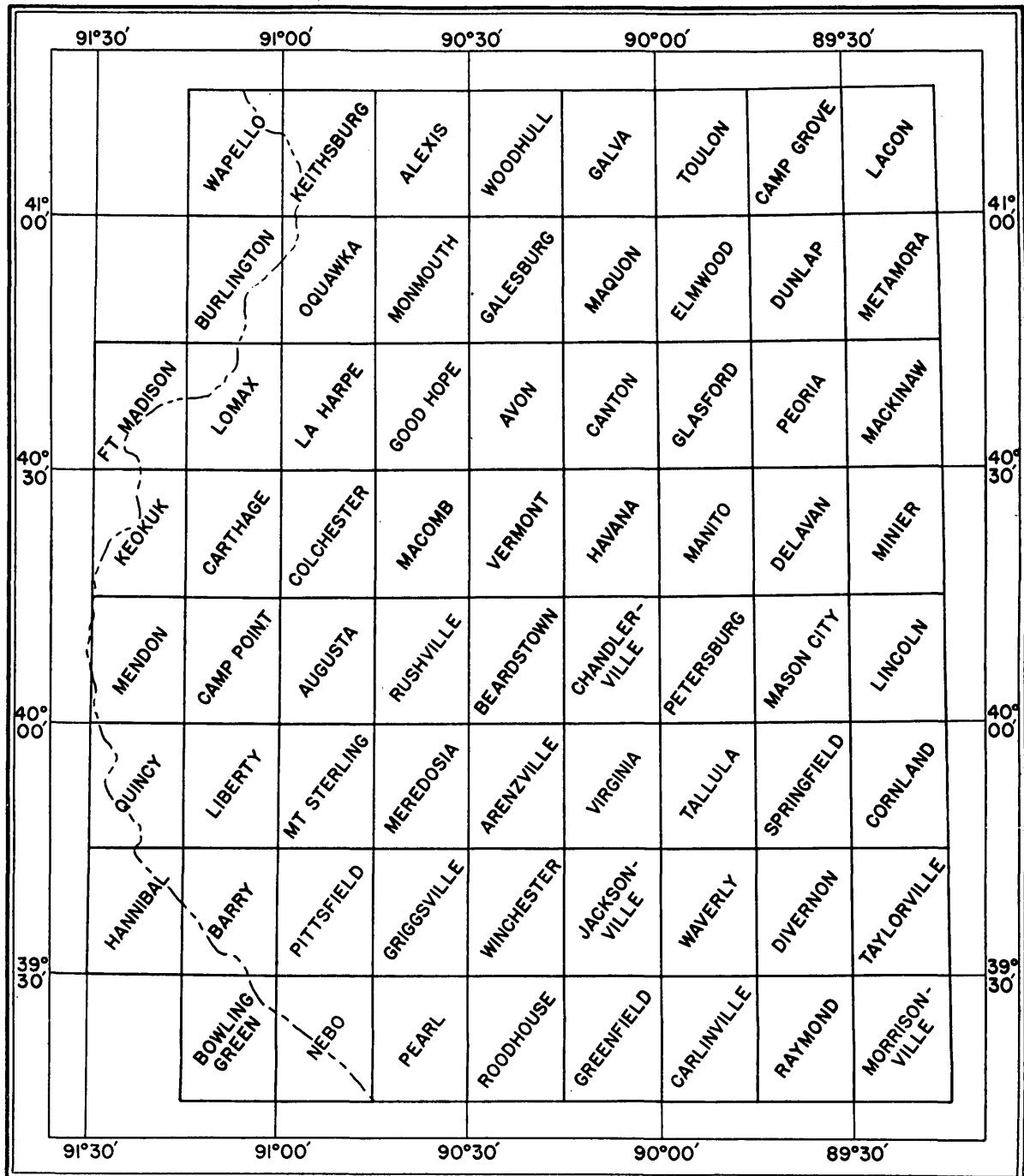
A and *B*, Standard tablets, principal bench marks, used where masonry or rock is available to hold them. *A* is used in cooperating States; the State name is inserted at *a*. *C*, Under side of *A* and *B*, showing shank used to hold tablet in place. *D* and *E*, Two views of copper nail and copper washer, a supplementary bench mark, used for points lying between those marked by standard tablets. *F*, Standard iron post fitted with bronze cap similar in design to the standard tablet, formerly used where no rock or masonry was available; superseded by concrete post with tablet set in top.



OUTLINE MAP OF ILLINOIS SHOWING THE NET OF FIRST- AND SECOND-ORDER LEVELING.



OUTLINE MAP OF ILLINOIS SHOWING THE NAMES AND RELATIVE POSITION OF THE FOUR SECTIONS COVERED BY THE PARTS OF BULLETIN 930.



INDEX MAP OF WEST-CENTRAL ILLINOIS SHOWING THE QUADRANGLES INTO WHICH THIS SECTION OF THE STATE HAS BEEN DIVIDED.

are stamped in the appropriate spaces at the time the surveys are made.

Supplementary or auxiliary bench marks are less formal in design and are placed between the principal bench marks. They are of many kinds. One kind consists of a copper nail $1\frac{1}{2}$ inches long supplied with a copper washer seven-eighths of an inch in diameter (D and E, pl. 1). The nail is driven into the root of a tree or cemented into rock. The designation "U S G S B M" is stamped on each washer, and on some washers the abbreviation of the name of the cooperating State is added. Another kind of supplementary bench mark is a chiseled square, used on the horizontal surface of a rock or masonry structure, or a chiseled cross, used on a vertical surface. Nails, track spikes, and small capped iron pipes also serve as supplementary bench marks, and easily described points, such as doorsills and tops of hydrants, are occasionally used.

Preservation and restoration of bench marks.—Any person who finds that a principal bench mark has been damaged, disturbed, or destroyed or that it should be reset or redescribed on account of highway or other improvements will render a public service by communicating the facts to the Director, Geological Survey, United States Department of the Interior, Washington, D. C., before taking any action affecting the location or elevation of the mark. A proper form, accompanied by a return-addressed, franked envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

Datum.—All elevations determined by the Geological Survey and those determined by the Coast and Geodetic Survey for inland mapping are referred to mean sea level, which is the level that the sea would assume if the influence of winds, tides, and currents were eliminated. This level is not the elevation determined from the mean of the highest and 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 those due to 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 levels determined from observa-

tions made in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.²

Location of the area.—West-central Illinois, as the term is used in this bulletin and as the subject of part 2 of the bulletin, is that section of the State lying between latitudes $39^{\circ}15'$ and $41^{\circ}15'$ and west of longitude $89^{\circ}15'$ (see pl. 5).

Index map.—The accompanying index map of west-central Illinois (pl. 6) shows the relative position of the quadrangle areas in which leveling has been done. A quadrangle is the unit of topographic survey adopted by the Geological Survey for mapping purposes. All the quadrangles referred to in listing the results of leveling in west-central Illinois measure 15 minutes in latitude by 15 minutes in longitude.

Topographic maps of quadrangles in west-central Illinois for which surveys have been completed may be purchased at 10 cents each retail or 6 cents each in lots of 50 or more. Prepayment is required and may be made by money order, payable to the Director of the Geological Survey, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent.

Diagrams of quadrangles showing routes of leveling.—At the beginning of the list of bench mark descriptions for each quadrangle is a diagram showing the routes followed by the lines of leveling in and immediately adjacent to the quadrangle. To aid in identifying these routes, the boundaries of the townships and ranges in the quadrangles are indicated by light dashed lines and the designations of these land subdivisions are given on the margin. Some of the principal settlements are also shown. The solid lines represent the routes of third-order leveling. To each of these is assigned a number, and the same number is assigned to the list of descriptions of bench marks along that route.

Cooperation.—Since 1906 equal allotments of funds for topographic surveys including leveling have been made from Federal and State sources. The cooperating agency in Illinois is the State Geological Survey Division, Department of Registration and Education. All principal bench marks established by the Geological Survey since the beginning of the cooperative agreement are stamped with the full or abbreviated State name.

Personnel.—The leveling of the Geological Survey in west-central Illinois was done under the supervision of the several chief geographers or chief topographic engineers who were in administrative charge of the topographic branch during the years when the lines were run.

² See Jones, E. L., *Hypsometry—Use of mean sea level as the datum for elevations: U. S. Coast and Geodetic Survey Special Pub. 41, 1917; Manual of tide observations: U. S. Coast and Geodetic Survey Special Pub. 196, 1935.*

Leveling by the State Geological Survey was under the supervision of the State geologist. Recent leveling on Civil Works Administration projects was under the supervision of the chief of the State Geological Survey Division, Department of Registration and Education. The name of the levelman who ran a particular line and the date when it was run immediately follow the designation of the route of that line and form part of the heading that precedes the descriptions of bench marks. The adjustment of the third-order level net, which included the adjustment of the recent leveling and readjustment of the earlier work, was made by S. R. Archer, associate engineer. The correlation and compilation of the descriptions and figures of elevation of the bench marks and the assembling of the lists were done by R. G. Clinite, associate geodetic engineer, under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.

Related publications.—(1) Earlier publications on spirit leveling in Illinois issued by the Geological Survey are as follows:

Triangulation and spirit leveling, Illinois: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 324-325, 1897.

Triangulation and spirit leveling, Illinois: U. S. Geol. Survey 19th Ann. Rept., pt. 1, pp. 256-257, 1898.

Results of spirit leveling in Illinois, 1896 to 1908, inclusive: U. S. Geol. Survey Bull. 421, 74 pp., 1910.

Results of spirit leveling in Illinois, 1909 and 1910: U. S. Geol. Survey Bull. 493, 115 pp., 1911.

Results of spirit leveling in Illinois, 1911 to 1913, inclusive: U. S. Geol. Survey Bull. 553, 110 pp., 1914.

Results of spirit leveling in Illinois, 1914 to 1917, inclusive: U. S. Geol. Survey Bull. 672, 108 pp., 1918.

(2) For additional leveling in quadrangles which overlap adjoining States, see the following Geological Survey publications:

Bull. 569, Results of spirit leveling in Iowa, 1915.

Bull. 898-F, Spirit leveling in Missouri, Part 6, 1939.

DESCRIPTIONS OF BENCH MARKS

ALEXIS QUADRANGLE

[Latitude $41^{\circ}00'$ – $41^{\circ}15'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

MERCER AND WARREN COUNTIES

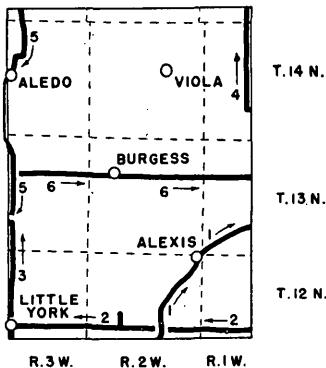


FIGURE 88.—Lines of leveling in Alexis quadrangle.

1. From point 1 mile northeast of Gerlaw northeast along Chicago, Burlington & Quincy Railroad to point 1.2 miles southwest of North Henderson (by R. G. Clinite in 1914)

[Continued from Monmouth quadrangle, line 1]

Gerlaw, 1.4 mi. NE. of, 4.5 mi. SW. of Alexis, 54 ft. E. of center line of track, at crossing of E.-W. rd., in SW. angle of junction of T.-rd. W., 7 ft. S. of corner of right-of-way fence; standard iron post with bronze cap stamped "714" (recovered in 1921) _____
 Alexis, 1.0 mi. SW. of sta., at crossing of E.-W. rd., 58 ft. W. of center line of track, on S. side of rd., 3 ft. N. of hedge fence; standard iron post with bronze cap stamped "690" _____
 Alexis, 2.0 mi. NE. of, 2.4 mi. SW. of North Henderson, at crossing of E.-W. rd., 107 ft. E. of center line of track, on S. side of rd., 1 ft. N. of fence; standard iron post with bronze cap stamped "731" _____

Feet
712.577

687.792

728.672

[Continued in Woodhull quadrangle, line 1]

2. From point 1.5 miles north and 0.6 mile west from Utah west along road to Little York, thence south 0.8 mile, including spur line leveled twice to point near Woodvale (by S. R. Archer in 1921)

[Connects with line 2 in Woodhull quadrangle]

Utah, 1.5 mi. N. thence 1.4 mi. W. from, near NE. cor. sec. 29, T. 12 N., R. 1 W., in SW. angle of junction of T.-rd. W., in root on E. side of 12-in. elm tree; copper nail and washer _____

694.73

	Feet
T. 12 N., R. 1 W., near SE. cor. sec. 19, 60 ft. N. and 150 ft. W. from crossroads, in field, 40 ft. N. of fence, in root on E. side of 24-in. elm tree; copper nail and washer	711. 32
T. 12 N., R. 1 W., 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 19, at NW. corner of culvert, in concrete retaining wall, at foot of W. end of iron railing; aluminum tablet stamped "1921 698"	697. 043
T. 12 N., R. 1 W., near NW. cor. sec. 30, 70 ft. S. and 40 ft. E. from junction of T-rd. E., on E. side of rd., 40 ft. S. of fence corner, in field, 5 ft. E. of fence, in root 3 in. underground on S. side of small hedge tree; large galvanized nail	728. 43
T. 12 N., R. 2 W., 75 ft. SE. of cor. secs. 23, 24, 25, and 26, at Indian Grove School, on E. side of rd., in schoolyard, on SE. corner of concrete curb around top of well; chiseled square	733. 37
T. 12 N., R. 2 W., 0.16 mi. E. of NW. cor. sec. 27, on S. side of rd., in root on N. side of 12-in. elm tree; copper nail and washer	729. 31
T. 12 N., R. 2 W., near SE. cor. sec. 20, 0.8 mi. E. thence 1.0 mi. S. from Woodvale, 120 ft. N. and 35 ft. W. from crossroads, on W. side on N.-S. rd., in field, in root on SE. side of 60-in. cottonwood tree; copper nail and washer	711. 68
Woodvale, 0.8 mi. E. of, near NE. cor. sec. 20, T. 12 N., R. 2 W., in SW. angle of crossroads, 3.5 ft. SW. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 23 1919 709" (on spur line)	707. 968
Reference mark, 160 ft. S. and 30 ft. W. from iron post, 30 ft. W. of fence on W. side of N.-S. rd., in field, in root 3 in. underground on SE. side of 24-in. oak tree; copper nail and washer	710. 72
Woodvale, 1.0 mi. S. and 0.2 mi. W. from, near SE. cor. sec. 19. T. 12 N., R. 2 W., in NW. angle of crossroads, on W. side of N.-S. rd., in root on NE. side of 10-in. walnut tree; copper nail and washer	672. 67
T. 12 N., R. 3 W., near SE. cor. sec. 24, at McGaw School, 35 ft. N. and 120 ft. W. from crossroads, in schoolyard, in root 3 in. underground on N. side of 6-in. elm tree; copper nail and washer	660. 36
T. 12 N., R. 3 W., 0.13 mi. E. of SW. cor. sec. 24, 220 ft. W. of private lane to dwelling of M. R. Lee, on N. side of rd., at SW. corner of orchard, just E. of fence corner, in root on NE. side of 30-in. oak tree; copper nail and washer	654. 14
T. 12 N., R. 3 W., near N $\frac{1}{4}$ cor. sec. 26, at offset crossroads, on E. side of N.-S. rd., in line with rd. W., standard iron post with bronze cap stamped "1921 603"	601. 274
Reference mark, 1,000 ft. W. of iron post, at W. abutment of bridge over Cedar Creek, on SW. end of S. concrete wing wall; chiseled square	607. 08
T. 12 N., R. 3 W., near SW. cor. sec. 22, 1.0 mi. E. of Little York, 375 ft. N. of Minneapolis & St. Louis R. R. crossing, 65 feet N. of right-angle turn in rd. from E. to S., 40 ft. N. of fence corner, on E. side of lane N., in root on S. side of 30-in. willow tree; copper nail and washer	591. 11
Little York, in N. part of, 40 ft. N. and 40 ft. W. from crossing of M. & St. L. R. R. and State Highway 135, in fence corner, in root on SE. side of 36-in. elm tree; copper nail and washer	597. 00
Little York, in SE. angle of intersection of principal streets, in front of corner entrance to First State Bank, 10 in. above sidewalk, on top of SW. end of lowest of three concrete steps; chiseled square	618. 81

Little York, 0.8 mi. S. of, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 28, T. 12 N., R. 3 W., on E. side of rd., at W. end of concrete walk to dwelling, on top of NW. corner of concrete platform; chiseled square-----

Feet
628. 17

[Continued in Monmouth quadrangle, line 6]

3. From Little York north along State Highway 94 5.5 miles to cross-roads at quarter corner between secs. 28 and 29, T. 13 N., R. 3 W., thence west 0.3 mile (by S. R. Archer in 1921)

Little York, 1.0 mi. N. of, near SE. cor. sec. 17, T. 12 N., R. 3 W., in NW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 22 1919 617"-----

616. 201

Reference mark, 12 ft. NW. of iron post, at SE. corner of yard of dwelling of W. T. McBride, in root 3 in. underground on E. side of 15-in. cottonwood tree; copper nail and washer-----

615. 88

Little York, 2.0 mi. N. of, near NW. cor. sec. 16, T. 12 N., R. 3 W., 300 ft. S. of junction of T-rd. E., 10 ft. S. and 25 ft. E. from SE. corner of bridge over creek, on E. side of rd., at fence line, on S. bank of creek, in root on W. side of 12-in. tree, southernmost in cluster of four willow trees; copper nail and washer-----

592. 45

Little York, 2.3 mi. N. of, 0.25 mi. N. of SE. cor. sec. 9, T. 12 N., R. 3 W., 30 ft SE. of SE. corner of highway bridge over Henderson Creek, on top of S. end of concrete retaining wall; chiseled square-----

590. 14

Little York, 3.0 mi. N. of, near SE. cor. sec. 5, T. 12 N., R. 3 W., in NW angle of junction of T-rd. W., 3 ft. W. of fence corner; standard iron post with bronze cap stamped "1921 606"-----

605. 187

Reference mark, on N. side of E.-W. rd., in fence line, in root 4 in. underground on SW. side of 12-in. hackberry tree; copper nail and washer-----

605. 16

Little York, 4.0 mi. N. of, at Mercer-Warren county line, near NE. cor. sec. 5, T. 12 N., R. 3 W., diagonally opposite Duck Creek School, 25 ft. S. and 65 ft. W. from crossroads, in root on NE. side of westernmost of two walnut trees standing 15 ft. apart; copper nail and washer-----

610. 06

Little York, 4.7 mi. N. of, 0.22 mi. N. of W $\frac{1}{4}$ cor. sec. 38, T. 13 N., R. 3 W., 420 ft. S. of dwelling, on top of E. concrete head wall of highway culvert; chiseled square-----

618. 18

Little York, 5.5 mi. N. of, near E $\frac{1}{4}$ cor. sec. 29, T. 13 N., R. 3 W., 35 ft. N. and 30 ft. W. from crossroads, 18 ft. N. of fence corner, in concrete post; standard tablet stamped "1921 632"-----

631. 085

Reference mark, in NE. angle of crossroads, in root on NW. side of 36-in. maple tree; copper nail and washer-----

631. 58

[Continued in Keithsburg quadrangle, line 1]

4. From point 2.2 miles south of Hopewell along roads west 0.2 mile, thence north to point near center of sec. 33, T. 15 N., R. 1 W. (by S. R. Archer in 1921)

[Continued from Woodhull quadrangle, line 2]

Hopewell, 1.2 mi. S. and 0.2 mi. W. from, near center of sec. 21, T. 14 N., R. 1 W., on E. side of rd., 5 ft. N. of E.-W. line fence, in root on E. side of 24-in. walnut tree; copper nail and washer-----

758. 98

Hopewell, 0.3 mi. in air line SW. of, near center of sec. 16, T. 14 N., R. 1 W., 730 ft. S. of Chicago, Burlington & Quincy R. R. crossing, 30 ft. S. and 40 ft. E. from crossroads, 20 ft. E. of fence corner; standard iron post with bronze cap stamped "1921 793" and "Prim Trav Sta No 15 W 1923"-----	Feet 792. 660
Reference mark, 140 ft. N. of crossroads, on W. side of rd., in SE. corner of yard of dwelling, in root on E. side of 36-in. forked maple tree; copper nail and washer-----	791. 01
T. 14 N., R. 1 W., 0.25 mi. N. of center of sec. 9, in SW. angle of crossroads, in root on NE. side of 30-in. maple tree; copper nail and washer-----	787. 74
T. 14 N., R. 1 W., 160 ft. W. of N $\frac{1}{4}$ cor. sec. 4, 0.5 mi. W. of Griffin, at offset crossroads, on S. side of township-line rd., 160 ft. W. of junction of rd. S., in line with rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 32 1910 759"-----	758. 760
Reference mark, 400 ft. N. of offset crossroads, on W. side of rd., in root on NE. side of 36-in. maple tree; copper nail and washer-----	755. 22

[Continued in Milan quadrangle, line 8]

5. From point near center of sec. 33, T. 15 N., R. 3 W., south along State Highway 94 and roads by way of Aledo to crossroads at quarter corner between secs. 28 and 29, T. 13 N., R. 3 W. (by E. O. Brooks in 1921)

[Connects with line 10 in Milan quadrangle]

T. 14 N., R. 3 W., near N $\frac{1}{4}$ cor. sec. 9, 2.8 mi. along highway NE. of Mercer County courthouse in Aledo, 3 ft. W. of NW. corner of steel bridge over Edwards River, on top of concrete wing wall; chiseled square-----	618. 68
Aledo, 1.3 mi. NE. of, near SW. cor. sec. 9, T. 14 N., R. 3 W., 0.5 mi. W. of highway, at junction of T-rd. S., on N. side of E.-W. rd., 7.5 ft. E. of gate, 2 ft. SW. of corner of hedge fence; standard iron post with bronze cap stamped "38 EB 1921 708"-----	707. 773
Reference mark, 35 ft. W. of iron post, 5 ft. S. of fence, in root of 30-in. maple tree; copper nail and washer-----	699. 05
Aledo, at NW. corner of yard of Mercer County courthouse, 50 ft. S. and 35 ft. E. from corner of concrete curb; standard iron post with bronze cap stamped "39 EB 1921 737" and "Prim Trav Sta No 20 W 1923" (recovered in 1923)-----	736. 629
Reference mark, 7 ft. N. and 35 ft. W. from iron post, on concrete curb; chiseled square-----	735. 06

[Jogs into Keithsburg quadrangle, line 4]

Aledo, 5.0 mi. S. of, near NE. cor. sec. 17, T. 13 N., R. 3 W., in SW. angle of crossroads, 90 ft. SW. of fence corner, in root of 48-in. elm tree; copper nail and washer (recovered in 1923)-----	671. 23
Aledo, 6.0 mi. S. of, near NE. cor. sec. 20, T. 13 N., R. 3 W., 45 ft. S. and 32 ft. W. from crossroads; standard iron post with bronze cap stamped "41 EB 1921 641" and "Prim Trav Sta No 22 W 1923" (recovered in 1923) ³ -----	640. 224
Reference mark, 15 ft. N. and 7 ft. E. from iron post, in root of 24-in. white-oak tree; copper nail and washer-----	639. 82

³ In 1924 this bench mark was moved 11.8 ft. west of its original position and reset at the same elevation. The description has been revised accordingly.

6. From crossroads 5 miles south of Aledo east along road by way of
 Burgess to point near east corner secs. 9 and 16, T. 13 N., R. 1 W.
 (by W. A. Shumate in 1923)

Burgess, 4.8 mi. W. of, 5.0 mi. S. thence 0.7 mi. E. from Aledo, at Sunbeam Presbyterian Church, 0.2 mi. E. of $N\frac{1}{4}$ cor. sec. 16, T. 13 N., R. 3 W., 190 ft. W. of junction of T-rd. S., on S. side of rd., at entrance to church, on bottom stone step; chiseled square-----	Feet 675.15
Burgess, 4.0 mi. W. of, near $N\frac{1}{4}$ cor. sec. 15, T. 13 N., R. 3 W., in SW. angle of crossroads, in root of 48-in. maple tree; 20-penny nail-----	665.50
Burgess, 3.0 mi. W. of, 25 ft. S. and 35 ft. W. from $N\frac{1}{4}$ cor. sec. 14, T. 13 N., R. 3 W., in concrete post; standard tablet stamped "Prim Trav Sta No 24 W 1923 23 S"-----	678.412
Reference mark, 75 ft. E. of tablet, in root of 36-in. maple tree; 20-penny nail-----	677.78
Burgess, 2.0 mi. W. of, near $N\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 3 W., in SW. angle of crossroads, in root of 48-in. elm tree; 20-penny nail-----	677.97
Burgess, 1.5 mi. W. of, at Prairie Rose School, near SE. cor. sec. 12, T. 13 N., R. 3 W., in SE. corner of schoolyard, in root of 60-in. tree; nail-----	678.01
Burgess, 0.5 mi. W. of, near SW. cor. sec. 8, T. 13 N., R. 2 W., in NE. angle of crossroads, in root of 12-in. locust tree; 20-penny nail-----	695.73
Burgess, 0.5 mi. E. of, near SE. cor. sec. 8, T. 13 N., R. 2 W., 30 ft. N. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 25 W 1923"-----	718.405
Reference mark, 70 ft. E. of tablet, in NE. angle of crossroads, in root of 36-in. maple tree; 20-penny nail-----	718.29
Burgess, 1.5 mi. E. of, 1.0 mi. W. of Sedwick School, near SW cor. sec. 10, T. 13 N., R. 2 W., on N. side of rd., 160 ft. S. of SW. corner of dwelling, in root of 48-in. maple tree; 20-penny nail-----	725.66
Sedwick School, near NE. cor. sec. 15, T. 13 N., R. 2 W., in SW. angle of crossroads, in NE. corner of schoolyard, in root of 40-in. maple tree; 20-penny nail-----	727.24
Sedwick School, 1.0 mi. E. of, near SW. cor. sec. 11, T. 13 N., R. 2 W., 30 ft. N. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 26 W 1923"-----	739.384
Reference mark, 65 ft. S. and 300 ft. E. from tablet, on S. side of rd., 3 in. underground, in root of 24-in. double-forked wild-cherry tree; 20-penny nail-----	734.21
Sedwick School, 2.0 mi. E. of, 4.0 mi. N. of Alexis, near SE. cor. sec. 12, T. 13 N., R. 2 W., at jog in E.-W. rd. at range line, 150 ft. N. of right-angle turn from W. to N., on W. side of N.-S. rd., about in line with rd. E., on stone; highest point-----	751.04
Sedwick School, 3.0 mi. E. of, near SE. cor. sec. 7, T. 13 N., R. 1 W., 150 ft. W. of crossroads, on N. end of E. abutment of bridge; chiseled square-----	708.29
Sedwick School, 4.0 mi. E. of, near NE. cor. sec. 17, T. 13 N., R. 1 W., 110 ft. W. of crossroads, on top near W. end of S. concrete coping of bridge; chiseled square-----	701.59

[Connects with line 2 in Woodhull quadrangle]

ARENZVILLE QUADRANGLE

[Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $90^{\circ}15' - 90^{\circ}30'$]

CASS, MORGAN, SCHUYLER, AND SCOTT COUNTIES

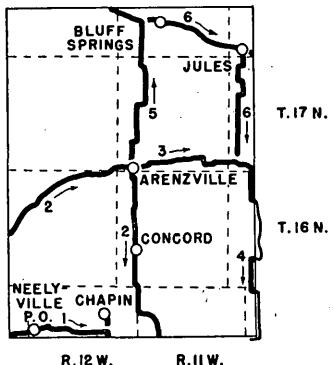


FIGURE 89.—Lines of leveling in Arenzville quadrangle.

1. From point 2 miles east of Bluffs along roads generally east and north to Chapin, thence south 1.2 miles (by S. R. Archer in 1924)

[Continued from Meredosia quadrangle, line 4]

Bluffs, 2.8 mi. E. of, 0.5 mi. SW. of Neelyville, near NE. cor. sec. 13, T. 15 N., R. 13 W., 225 ft. S. of junction of T-rd. S., 170 ft. S. of crossing of Wabash Ry., 75 ft. S. of S. end of bridge over Wolf Run, on E. side of rd. S., on S. side of private rd. SE., 7 ft. N. and 10 ft. W. from NW. corner of German Lutheran Church, in concrete post; standard tablet stamped "Prim. Trav. Sta. No 80 W 1923 6 A" (recovered by U. S. C. & G. S. in 1933)-----

Reference mark, 30 ft. E. of tablet, at front entrance of church, on top of E. end of lower concrete step; chiseled square-----

Neelyville, in front of general store of C. F. Cordes, at SE. corner of entrance to cellar, on SE. corner of concrete platform, 6 ft. S. of SE. corner and in line with E. side of store; chiseled square-----

Neelyville (Neelys Sta.), in front of sta.; top of rail-----

Neelyville, 0.9 mi. NE. of, about 650 ft. N. of center of SW $\frac{1}{4}$ sec. 8, T. 15 N., R. 12 W., 55 ft. S. and 50 ft. E. from junction of T-rd. S., 50 ft. E. of R. R. crossing, at N. end of W. stone abutment of R. R. bridge, about 4 ft. lower than rail, on top of NE corner of lower step of abutment; chiseled square-----

Neelyville, 0.9 mi. NE. thence 0.1 mi. S. from, 1.0 mi. S. thence 3.3 mi.

W. from Chapin, near center of SW $\frac{1}{4}$ sec. 8, T. 15 N., R. 12 W.,

10 ft. N. and 20 ft. W. from junction of T-rd. E., on W. side of rd.,

in fence line, in root on NE. side of 42-in. oak tree; copper nail and

washer-----

Feet
550.042

552.74

566.63

563.0

590.09

629.84

	Feet
Chapin, 1.0 mi. S. thence 2.5 mi. W. from, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 9, T. 15 N., R. 12 W., 25 ft. S. and 25 ft. E. from right-angle turn N. in rd., in NW. corner of yard of farmhouse, in root on W. side of 30-in. maple tree; copper nail and washer-----	635.36
Chapin, 1.0 mi. S. thence 1.8 mi. W. from, 0.25 mi. W. of NE. cor. sec. 16, T. 15 N., R. 12 W., 50 ft. S. and 20 ft. E. from junction of T-rd. E., 15 ft. N. and 28 ft. W. from SW. corner of Hazel Dell School, in concrete post; standard tablet stamped "7 A 1924"-----	611.661
Reference mark, 10 ft. N. of tablet, 14 ft. S. and 28 ft. W. from NW. corner of schoolhouse, in root on NE. side of 12-in. elm tree; copper nail and washer-----	611.88
Chapin, 1.0 mi. S. thence 1.0 mi. W. from, near N $\frac{1}{4}$ cor. sec. 15, T. 15 N., R. 12 W., 110 ft. S. of junction of T-rd. S., on E. side of rd., at fence line, in root 4 in. underground on NW. side of 24-in. wild-cherry tree; copper nail and washer-----	621.42
Chapin, 1.0 mi. S. thence 0.3 mi. W. from, 0.3 mi. E. of SW. cor. sec. 11, T. 15 N., R. 12 W., 930 ft. W. of junction of T-rd. S., on N. side of rd., in root on SE. side of 12-in. elm tree; copper nail and washer-----	618.78
Chapin, on S. side of R. R. sta., at entrance to waiting room, on top of W. end of stone doorsill; chiseled square-----	628.85
Chapin, about 60 ft. W. of sta., about 20 ft. N. and 17 ft. W. from crossing of Chicago, Burlington & Quincy R. R. and Wabash Ry., on E. side of N-S. street, in concrete post; standard tablet stamped "Prim Trav Sta No 1 M 1923 8 A" (recovered by U. S. C. & G. S. in 1933)-----	627.236
Chapin, at SW. corner of intersection of main streets, at corner entrance of concrete block store building owned by C. F. Duckett, on top of SE. corner of top step; chiseled square-----	627.38

[Continued in Winchester quadrangle, line 4]

2. From point 3.5 miles east of Meredosia along roads northeast to Arenzville, thence south to junction of State Highway 104, thence southeast 1.4 miles and south 0.8 mile to point 1.2 miles west and 0.3 mile north from Markham (by C. E. Walker in 1917)

[Continued from Meredosia quadrangle, line 10]

Meredosia, 4.6 mi. NE. of, about 1,000 ft. W. of E $\frac{1}{4}$ cor. sec. 18, T. 16 N., R. 12 W., 30 ft. N. and 20 ft. W. from crossroads, on concrete head wall of large culvert; chiseled square-----	475.27
Meredosia, 5.6 mi. NE. of, 6.7 mi. SW. of Arenzville, in SE $\frac{1}{4}$ sec. 8, T. 16 N., R. 12 W., on SE. side of rd., at farmhouse of H. A. Brockhouse, in N. corner of front yard, along bluffs, in limestone block set underground; copper bolt leaded vertically (U. S. C. E. P. B. M. 22)-----	480.284
Reference mark, in front of farmhouse, on E. side of rd., near barn-lot gate, on head wall of large concrete culvert; chiseled square-----	481.96
Arenzville, 5.9 mi. SW. of, 0.5 mi. S. of McKendree Chapel, 0.3 mi. S. of NE. cor. sec. 8, T. 16 N., R. 12 W., 170 ft. S. of junction of T-rd. E., on W. side of rd., in root on W. side of double mulberry tree; copper nail and washer-----	468.34
Arenzville, 4.9 mi. SW. of, in SE $\frac{1}{4}$ sec. 4, T. 16 N., R. 12 W., in front of farmhouse of Roy Burrus, on NW. side of rd., on 40-ft. concrete head wall over drain; chiseled square-----	488.19

	Feet
Arenzville, 3.9 mi. SW. of, NE. of center of sec. 3, T. 16 N., R. 12 W., 500 ft. SW of rd. junction, on SE. side of rd., on E. side of gate to residence of A. W. Hierman, in concrete post; standard tablet stamped "T T Sta No 6 S 1927"-----	489. 861
Reference mark, in front of Hierman residence, on NW. wing wall of concrete bridge over drain; chiseled square-----	489. 70
Arenzville, 3.0 mi. SW. of, N. of center of NW $\frac{1}{4}$ sec. 2, T. 16 N., R. 12 W., just E. of Burrs School, on S. side of rd., near farmhouse, on top of concrete head wall of culvert; chiseled square-----	501. 87
Arenzville, 1.6 mi. SW. of, at Cass-Morgan county line, at bridge over Mud Creek, on NW. cylindrical steel pier; top of square-headed anchor bolt-----	478. 73
Arenzville, at W. edge of, at bridge over Indian Creek, on top of SE. cylindrical steel pier; top of square-headed anchor bolt-----	476. 68
Arenzville, 32 ft. E. of SE. corner of Trinity Lutheran Church, 10 ft. N. of sidewalk, in concrete post; standard tablet stamped "T T Sta No 5 S 1927"-----	509. 985
Reference mark, at E. entrance to church, on first concrete step; chiseled square-----	509. 95
Arenzville, 0.5 mi. S. of, at SW. corner of C. B. & Q. R. R. trestle over Indian Creek, 10 in. below rail surface, 6 ft. W. of W. rail, on concrete retaining wall; chiseled square-----	503.22
Arenzville, 2.0 mi. S. of, about 500 ft. S. of NE. cor. sec. 7, T. 16 N., R. 11 W., 65 ft. E. of front of residence of L. Lownder, in root on E. side of 10-in. elm tree; copper nail and washer-----	583. 82
Arenzville, 2.8 mi. S. of, about 600 ft. N. of SE. cor. sec. 7, T. 16 N., R. 11 W., 25 ft. S. and 20 ft. W. from junction of T-rd. W., on E. end of concrete retaining wall around feed house; chiseled square-----	568. 88
Arenzville, 3.4 mi. S. of, 1.5 mi. N. of Concord, near E $\frac{1}{4}$ cor. sec. 18, T. 16 N., R. 11 W., 30 ft. N. and 25 ft. W. from crossroads, 15 ft. N. of fence corner, inside fence line, in concrete post; standard tablet stamped "22 WA 1927"-----	579. 943
Reference mark, 25 ft. S. and 30 ft. W. from crossroads, in root on W. side of double maple tree used as corner fence post; copper nail and washer-----	580. 44
Concord, 30 ft. N. and 20 ft. W. from main crossroads, on concrete head wall of culvert; chiseled square-----	594. 92
Concord, 1.0 mi. S. of, about 600 ft. S. of NW. cor. sec. 32, T. 16 N., R. 11 W., in valley, on E. side of rd., 50 ft. N. and 30 ft. E. from junction of private drive E. near bridge; in root on SW. side of 24-in. oak tree; copper nail and washer-----	589. 00
Concord, 2.8 mi. S. of, 2.0 mi. E. thence 1.4 mi. N. from Chapin, near NW. cor. fractional sec. 6, T. 15 N., R. 11 W., 35 ft. S. and 20 ft. E. from junction of T-rd. S., at Harmony School, in NW. corner of schoolyard, 14 ft. S. of fence corner, in fence line, in concrete post; standard tablet stamped "23 WA 1927"-----	599. 795
Reference mark, on W. end of concrete sidewalk leading to schoolhouse; chiseled square-----	602. 17
Chapin, 2.0 mi. E. thence 0.6 mi. N. from, 0.6 mi. N. of State Highway 104, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 6, T. 15 N., R. 11 W., in NE. angle of crossroads, in root on SW. side of 8-in. elm tree; spike-----	595. 50

498 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Chapin, 2.4 mi. E. of, in NW $\frac{1}{4}$ sec. 7, T. 15 N., R. 11 W., in SW. angle of junction of T-rd. S., on concrete head wall of culvert; chiseled square	614.35
Chapin, 3.2 mi. SE. of, 1.2 mi. W. thence 1.0 mi. N. from Markham, 0.2 mi. W. of center of sec. 8, T. 15 N., R. 11 W., near bridge over Mauvaise Terre Creek, in NE. angle of junction of T-rd. E., on concrete head wall of culvert; chiseled square	537.45
[Connects with line 4 in Winchester quadrangle]	
3. From Arenzville along roads east and south to point 0.8 mile northwest of Arcadia (by C. E. Walker in 1927)	
Arenzville, 1.3 mi. E. of, near W $\frac{1}{4}$ cor. sec. 33, T. 17 N., R. 11 W., 110 ft. N. and 30 ft. E. from junction of T-rd. N., in root on S. side of 20-in. white-oak tree; copper nail and washer	583.05
Arenzville, 2.3 mi. E. of, near E $\frac{1}{4}$ cor. sec. 33, T. 17 N., R. 11 W., in NW. angle of T-junction of N-S. rd., inside fence, 14 ft. E. of corner, in root on E. side of 18-in. black-oak tree; copper nail and washer	577.94
Arenzville, 3.2 mi. E. of, S. of center of NE $\frac{1}{4}$ sec. 34, T. 17 N., R. 11 W., 100 ft. S. and 20 ft. E. from junction of T-rd. S., in root on N. side of 20-in. elm tree; copper nail and washer	589.85
Arenzville, 4.2 mi. E. of, near center of NE $\frac{1}{4}$ sec. 35, T. 17 N., R. 11 W., 20 ft. S. and 50 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 4 S 1927"	593.038
Arenzville, 4.9 mi. E. of, near quarter corner between secs. 35 and 36, T. 17 N., R. 11 W., 20 ft. S. and 60 ft. E. from junction of T-rd. S., in yard, in root on S. side of 8-in. maple tree; copper nail and washer	592.74
Arenzville, 5.8 mi. E. of, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 36, T. 17 N., R. 11 W., about 400 ft. E. of junction of T-rd. N., in root on N. side of 48-in. elm tree; copper nail and washer	598.36
Arenzville, 7.4 mi. E. of, 1.2 mi. NW. thence 1.8 mi. N. from Arcadia, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 32, T. 17 N., R. 10 W., 25 ft. S. of rd., 60 ft. W. of junction of rd. S., in concrete post; standard tablet stamped "T T Sta No 3 S 1927" (recovered in 1928)	576.082
Reference mark, 20 ft. N. and 20 ft. E. from rd. junction, in root on SE. side of 16-in. oak tree; copper nail and washer (recovered in 1928)	574.68
Arcadia, 1.2 mi. NW. thence 0.6 mi. N. from, in SW $\frac{1}{4}$ sec. 5, T. 16 N., R. 10 W., on E. side of rd., in SE. angle of junction of private T-rd. E., on property of John Kennedy, in root on W. side of 24-in. wild-cherry tree; copper nail and washer	593.24
Arcadia, 1.0 mi. NW. of, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 8, T. 16 N., R. 10 W., in NE. angle of crossroads, in root on S. side of double oak tree; copper nail and washer	584.21
[Continued in Virginia quadrangle, line 1]	
4. From point 2.1 miles south and 0.8 mile west from Arcadia along roads west 0.2 mile, south 1.7 miles, and east 0.2 mile (by C. E. Walker in 1927)	
[A jog from Virginia quadrangle, line 1]	
Arcadia, 2.1 mi. S. thence 0.5 mi. W. from, 0.9 mi. S. and 6.3 mi. E. from Concord, 0.25 mi. E. of W. cor. secs. 29 and 32, T. 16 N., R. 10 W., 20 ft. S. and 20 ft. E. from junction of T-rd. W., in root on W. side of middle 12-in. walnut tree; copper nail and washer	594.18

Concord, 1.9 mi. S. thence 6.3 mi. E. from, 2.3 mi. E. of Joy Prairie, 4.7 mi. N. and 1.3 mi. W. from Jacksonville, 0.3 mi. E. of NW. cor. sec. 6, T. 15 N., R. 10 W., in NE. corner of Ebenezer Cemetery, in line with rd. N., in concrete post; standard tablet stamped "T T Sta No 1 S 1927"-----

Reference mark, at N. side of cemetery entrance, on concrete culvert; chiseled square-----

Feet
607.721

605.64

[Continued in Virginia quadrangle, line 1]

5. From Arenzville along roads north to junction of U. S. Highway 67 at point 1 mile west of Bluff Springs, thence northwest 1.9 miles (by C. E. Walker in 1927; last 4.7 miles leveled twice)-----

Arenzville, 1.5 mi. N. of, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 30, T. 17 N., R. 11 W., 4 ft. S. and 50 ft. W. from crossroads, in fence corner, in root on N. side of 24-in. oak tree; copper nail and washer-----

503.74

Arenzville, 2.4 mi. N. of, 0.2 mi. N. of SW. cor. sec. 20, T. 17 N., R. 11 W., at bridge over Prairie Creek, on SE. cylindrical pier; chiseled square-----

496.82

Arenzville, 3.7 mi. N. of, near E $\frac{1}{4}$ cor. sec. 18, T. 17 N., R. 11 W., 50 ft. S. and 20 ft. W. from T-junction of E-W. rd., in fence line, 25 ft. S. of corner, in concrete post; standard tablet stamped "24 WA 1927"-----

496.94

Reference mark, 40 ft. S. and 20 ft. W. from rd. junction, in root on E. side of 8-in. boxelder tree; copper nail and washer-----

496.23

Arenzville, 5.1 mi. by rd. N. of, about 800 ft. S. of center of sec. 8, T. 17 N., R. 11 W., 40 ft. S. and 30 ft. W. from junction of T-rd. W., in root on E. side of 20-in. oak tree; copper nail and washer-----

514.22

Arenzville, 6.2 mi. N. of, 1.0 mi. W. thence 2.5 mi. S. from Bluff Springs, near center of sec. 5, T. 17 N., R. 11 W., opposite T-junction of E-W. rd., in fence line, in concrete post; standard tablet stamped "25 WA 1927"-----

484.855

Bluff Springs, 1.0 mi. W. of, 0.25 mi. E. of NW. cor. sec. 29, T. 18 N., R. 11 W., 25 ft. S. and 30 ft. W. from junction of U. S. Highway 67, in field, 10 ft. W. of fence corner, in fence line, in concrete post; standard tablet stamped "26 WA 1927"-----

474.277

Reference mark, in line with rd. S., 2 ft. N. of S. edge of concrete pavement; chiseled square-----

474.13

Bluff Springs, 2.1 mi. NW. of, in SW $\frac{1}{4}$ sec. 19, T. 18 N., R. 12 W., 70 ft. S. of highway, in front yard of C. E. Perry, in root on N. side of 16-in. blackoak tree; copper nail and washer-----

457.45

[Continued in Beardstown quadrangle, line 8]

6. From road junction 1 mile west of Bluff Springs southeast along U. S. Highway 67 to Jules, thence south along road to road junction 6.3 miles east of Arenzville, thence west 0.6 mile (by C. E. Walker in 1927)-----

Bluff Springs, 30 ft. N. and 80 ft. W. from junction of T-rd. N., on top of concrete culvert; chiseled square-----

505.76

Bluff Springs, 1.2 mi. SE. of, in NW $\frac{1}{4}$ sec. 27, T. 18 N., R. 11 W., in NW. angle of junction of private T-rd. N. to house of Oscar G. Reichert, on concrete culvert; chiseled square-----

522.62

Bluff Springs, 1.8 mi. SE. of, 3.1 mi. NW. of Jules, near E $\frac{1}{4}$ cor. sec. 27, T. 18 N., R. 11 W., 30 ft. N. and 60 ft. W. from junction of rd. N., opposite Warrior School, in concrete post; standard tablet stamped "T T Sta No 3 JLS 1927"-----

539.807

500 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Reference mark, 20 ft. N. and 30 ft. E. from rd. junction, on concrete culvert; chiseled square	540.06
Jules, 1.8 mi. W. of, about 800 ft. S. of NE. cor. sec. 35, T. 18 N., R. 11 W., in NW. angle of junction of rd. N., on concrete culvert; chiseled square	570.66
Jules, near SW. corner of Shilow Church, 3.4 mi. NW. of Virginia, 50 ft. N. of highway, in concrete post; standard tablet stamped "T T Sta No 2 JLS 1927" (recovered in 1928)	614.008
Reference mark, 200 ft. S. of church, on W. wall of concrete culvert; chiseled square (recovered in 1928)	606.80
Jules, 1.0 mi. S. of; at right-angle bend in rd., in root on W. side of 20-in. boxelder tree; copper nail and washer	624.06
Jules, 2.1 mi. S. of, near center of NW $\frac{1}{4}$ sec. 7, T. 17 N., R. 10 W., 20 ft. N. and 70 ft. W. from T-junction of E.-W. rd., in root on SE. side of 48-in. elm tree; copper nail and washer	615.48
Jules, 4.2 mi. S. of, 2.4 mi. S. thence 2.8 mi. W. from Virginia, 6.4 mi. E. thence 2.5 mi. N. from Arenzville, near S $\frac{1}{4}$ cor. sec. 18, T. 17 N., R. 10 W., 105 ft. N. and 20 ft. W. from junction of T-rd. E., 60 ft. NE. of front door of Providence School, in concrete post; standard tablet stamped "T T Sta No 1 JLS 1927"	612.034
Reference mark, at entrance to schoolhouse; chiseled square	611.85
Arenzville, 6.4 mi. E. thence 1.6 mi. N. from, about 750 ft. N. of S $\frac{1}{4}$ cor. sec. 19, T. 17 N., R. 10 W., on E. side of rd., in front of residence of C. M. Plummer, on concrete culvert; chiseled square	574.38

AUGUSTA QUADRANGLE

[Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $90^{\circ}45' - 91^{\circ}00'$]

ADAMS, BROWN, HANCOCK, AND SCHUYLER COUNTIES

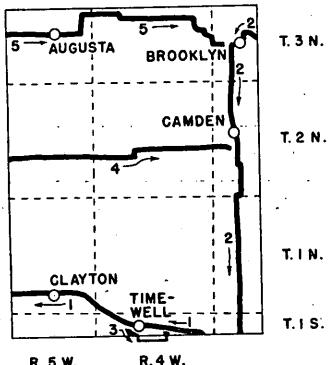


FIGURE 90.—Lines of leveling in Augusta quadrangle.

1. From point 2.6 miles northwest of Mount Sterling northwest along Wabash Railway to point 2.2 miles west of Clayton (by R. G. Clinite in 1914)

[Continued from Mount Sterling quadrangle, line 1]

Mount Sterling, 4.1 mi. NW. of, 1.6 mi. SE. of Timewell, in NE. angle of rd. crossing, 50 ft. N. of track, 5 ft. W. of fence; standard iron post with bronze cap stamped "744" (recovered by U. S. C. & G. S. in 1933) -----

Feet
743.253

Timewell, 1.7 mi. NW. of, 3.2 mi. SE. of Clayton, in SE. angle of rd. crossing, 400 ft. E. of milepost "Det. 495—Qcy. 31," 20 ft. E. of 14-in. cottonwood tree; standard iron post with bronze cap stamped "744" (recovered by U. S. C. & G. S. in 1933) -----

743.722

Clayton, in NE. corner of schoolyard, 15 ft. N. of 18-in. elm tree; standard iron post with bronze cap -----

720.842

[Continued in Camp Point quadrangle, line 1]

2. From point 0.5 mile north and 0.7 mile east from Brooklyn west and south along State Highway 101 to Brooklyn, thence south along roads by way of Camden to point 1 mile north of Mount Sterling (by F. L. Shalibo in 1928)

[Continued from Rushville quadrangle, line 6]

Brooklyn, 30 ft. E. of intersection of Broadway and Kentucky Street, on W. side of schoolhouse square; standard iron post with bronze cap stamped "Prim Trav Sta No 57 1910 17 S 1923" (recovered in 1936) -----

550.556

Reference mark, 12 ft. E. of iron post, in root on N. side of elm tree; copper nail -----

550.13

	Feet
Brooklyn, 0.6 mi. S. and 0.5 mi. W. from, near quarter corner between secs. 29 and 30, T. 3 N., R. 3 W., opposite junction of T-rd. W., on N. corner at W. end of concrete sidewalk to farmhouse; chiseled square (recovered in 1936)	558.71
Brooklyn, 1.1 mi. S. and 0.5 mi. W. from, near E. cor. secs. 30 and 31, T. 3 N., R. 3 W., 50 ft. N. of stream crossing, on W. side of rd., in fence line, in root of walnut tree; copper nail	500.31
Brooklyn, 2.1 mi. S. and 0.5 mi. W. from, 2.9 mi. N. of Camden, near NW. cor. sec. 5, T. 2 N., R. 3 W., 60 ft. N. of stream crossing, 40 ft. E. of rd., in root on N. side of large tree; copper nail	484.41
Camden, 1.9 mi. N. of, near SW. cor. sec. 5, T. 2 N., R. 3 W., 280 ft. N. of junction of T-rd. W., 30 ft. E. of N.-S. rd., in NW. corner of yard of farmhouse, in concrete post; standard tablet stamped "16 S 1923"	570.158
Reference mark, 25 ft. S. of tablet, in root on W. side of maple tree; copper nail	570.01
Camden, 1.1 mi. N. of, 0.2 mi. S. of junction of T-rd. W., on E. side of rd., in root on W. side of large tree; copper nail	571.27
Camden, in NW. angle of junction of T-rd. W., at dry goods store of Homer Dorsett, on S. end of concrete step; chiseled square (recovered in 1936)	603.09
Camden, 0.8 mi. S. of, 0.25 mi. W. of center of sec. 20, T. 2 N., R. 3 W., 30 ft. N. and 30 ft. W. from crossroads, in SE. corner of triangle between rds., 2 ft. N. of concrete right-of-way marker; standard iron post with bronze cap stamped "15 S 1923" and "Prim Trav Sta No 13 1924"*	605.107
Camden, 2.4 mi. S. and 0.3 mi. E. from, 0.25 mi. N. of center of sec. 32, T. 2 N., R. 3 W., 60 ft. NE. of junction of T-rd. W., in root on S. side of large tree; copper nail	508.55
Camden, 3.2 mi. S. and 0.3 mi. E. from, near N $\frac{1}{4}$ cor. sec. 5, T. 1 N., R. 3 W., at Brown-Schuyler county line, 30 ft. W. of rd., 5 ft. W. of fence corner, in concrete post; aluminum tablet stamped "20 S 1923"	500.913
Reference mark, 140 ft. S. of tablet, on W. side of rd., in root on W. side of hickory tree; copper nail	500.16
Camden, 4.0 mi. S. and 0.2 mi. E. from, 0.2 mi. N. of quarter corner between secs. 5 and 8, T. 1 N., R. 3 W., in NE. angle of junction of T-rd. E., on W. side of concrete base of corner fence post; chiseled square	620.65
Camden, 5.2 mi. S. and 0.2 mi. E. from, near N $\frac{1}{4}$ cor. sec. 17, T. 1 N., R. 3 W., in SE. angle of junction of T-rd. E., in root on W. side of large tree; copper nail	669.74
Camden, 6.0 mi. S. and 0.2 mi. E. from, 0.3 mi. SW. of Daisy, 5.3 mi. N. of Mount Sterling, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 17, T. 1 N., R. 3 W., opposite junction of rd. N.E., in SE. corner of yard of farmhouse, in concrete post; aluminum tablet stamped "21 S 1923"	692.315
Reference mark, 100 ft. S. of tablet, on W. side of rd., in root on S. side of large tree; copper nail	691.29
Mount Sterling, 3.8 mi. N. of, 0.25 mi. N. of center of sec. 29, T. 1 N., R. 3 W., 100 ft. N. of junction of T-rd. E., in front of Bell School, at NW. corner of concrete curb around top of well; chiseled square	689.22

* In 1936 this bench mark was moved 18 ft. north and 56 ft. west from its original position and reset at an elevation 0.468 ft. lower than that originally determined. The description and elevation given refer to the new position.

Mount Sterling, 3.0 mi. N. of, near quarter corner between secs. 29 and 32, T. 1 N., R. 3 W., opposite junction of T-rd. W., on NE. corner of concrete porch of schoolhouse; chiseled square-----	705. 37
Mount Sterling, 2.0 mi. N. of, near S $\frac{1}{4}$ cor. sec. 32, T. 1 N., R. 3 W., in NE. angle of crossroads, 4 ft. NE. of fence corner, in concrete post; aluminum tablet stamped "22 S 1923"-----	705. 155
Reference mark, 4 ft. SW. of tablet, on concrete base of corner fence post; chiseled square-----	704. 49
Mount Sterling, 1.0 mi. N. of, near quarter corner between secs. 5 and 8, T. 1 S., R. 3 W., 20 ft. S. of lane E., on concrete base of corner fence post; chiseled square-----	711. 39

[Continued in Mount Sterling quadrangle, line 3]

3. From point on Wabash Railway 1.7 miles northwest of Timewell along roads alternately east and south to point 0.4 mile south of Timewell (by G. F. Williams in 1925)

Timewell, 0.2 mi. N. and 1.0 mi. W. from, near quarter corner between secs. 5 and 6, T. 1 S., R. 4 W., on S. side of concrete highway, at concrete culvert under driveway at N.-S. fence line, on E. head wall; chiseled square (recovered by U. S. C. & C. S. in 1933)-----	756. 527
Timewell, 0.2 mi. N. and 0.5 mi. W. from, near center of sec. 5, T. 1 S., R. 4 W., in SW. angle of crossroads, on W. head wall of concrete culvert under rd. S.; chiseled square (recovered by U. S. C. & G. S. in 1933)-----	754. 749
Timewell, 0.3 mi. S. and 0.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 5, T. 1 S., R. 4 W., 25 ft. N. and 45 ft. E. from junction of T-rd. N., 18 ft. E. of corner fence post; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1914 6 GW 1925"-----	753. 825
Reference mark, on S. side of rd., in NE. corner of yard, inside fence, in root on NE. side of 36-in. maple tree; copper nail and washer-----	752. 59
Timewell, 0.3 mi. S. of, near cor. secs. 4, 5, 8, and 9, T. 1 S., R. 4 W., on E. side of concrete highway, on N. head wall of concrete culvert under driveway; chiseled square-----	751. 41

[Continued in Mount Sterling quadrangle, line 6]

4. From point 0.9 mile south of La Prairie generally east along improved county road to Camden (by S. R. Archer in 1936)

[Connects with line 9 in Camp Point quadrangle]

La Prairie, 0.9 mi. S. and 0.5 mi. E. from, near SW. cor. sec. 21, T. 2 N., R. 5 W., 140 ft. E. of junction of T-rd. S., 40 ft. W. of driveway, on N. side of rd., 13 ft. E. of S. end of walk, in root on S. side of tree, easternmost of two 12-in. boxelder trees standing 10 ft. apart; copper nail and washer-----	712. 81
T. 2 N., R. 5 W., near N $\frac{1}{4}$ cor. sec. 28, 400 ft. E. of junction of T-rd. N., at concrete culvert under county rd., on top of E. end of S. head wall; chiseled square-----	683. 85
T. 2 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 22, in NW. angle of junction of T-rd. N., in root on N. side of 40-in. cottonwood tree; copper nail and washer-----	702. 88
T. 2 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 23, 30 ft. N. and 30 ft. W. from crossroads, 2 ft. N. of concrete right-of-way marker, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "607"-----	696. 885

	Feet
T. 2 N., R. 5 W., 0.13 mi. W. of N $\frac{1}{4}$ cor. sec. 25, 500 ft. E. of private rd. S., at concrete culvert under county rd., on top of E. end of S. head wall; chiseled square	667.35
T. 2 N., R. 4 W., near W. cor. secs. 19 and 30, just E. of Adams-Schuyler county line, at concrete bridge over Cedar Creek, on top of S. parapet of E. abutment; chiseled square	643.93
T. 2 N., R. 4 W., near N $\frac{1}{4}$ cor. sec. 30, in SE. angle of junction of T-rd. S., in root on N. side of 30-in. oak tree; copper nail and washer	678.77
T. 2 N., R. 4 W., near N $\frac{1}{4}$ cor. sec. 29, 20 ft. S. and 20 ft. E. from crossroads, 5 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 18 1914 686"	686.445
Reference mark, 200 ft. NW. of iron post, at culvert on curve in improved county rd., on NW. side of triangle between rds., on SE. head wall; chiseled square	690.42
T. 2 N., R. 4 W., 500 ft. SW. of E $\frac{1}{4}$ cor. sec. 20, 500 ft. SW. of crossroads, at culvert under county rd., on SE. head wall; chiseled square	685.22
T. 2 N., R. 4 W., 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 22, 0.2 mi. E. of junction of T-rd. N., at culvert under county rd., on N. head wall; chiseled square	646.74
T. 2 N., R. 4 W., 0.12 mi. E. of center of sec. 22, 650 ft. E. of crossroads, on N. head wall of concrete culvert; chiseled square	661.84
T. 2 N., R. 4 W., 0.17 mi. W. of center of sec. 23, 35 ft. W. of junction of T-rd. S., at concrete culvert under county rd., in top of E. end of S. head wall; standard tablet stamped "576"	576.055
T. 2 N., R. 4 W., 900 ft. E. of W $\frac{1}{4}$ cor. sec. 24, 85 ft. W. of farmhouse on N. side of rd., at concrete culvert under county rd., on top of E. end of N. head wall; chiseled square	584.82
T. 2 N., R. 3 W., near W $\frac{1}{4}$ cor. sec. 19, 110 ft. E. of rd. junction, on N. side of rd., on concrete right-of-way marker; highest point—Camden, 0.8 mi. S. and 0.3 mi. W. from, 0.27 mi. E. of center of sec. 19, T. 2 N., R. 3 W., on top of W. end of N. head wall of concrete culvert; chiseled square	582.18
Camden, 0.8 mi. S. of, 0.25 mi. W. of center of sec. 20, T. 2 N., R. 3 W., 120 ft. W. of standard iron post, at SW. corner of triangle between rds., on top of E. head wall of concrete culvert under highway along NW. side of triangle; chiseled square ⁵	566.75
5. From point 3.4 miles east of Bowen east along State Highways 61 and 101 to road junction 1.5 miles east of Augusta, thence north and east to point 1.4 miles south of Birmingham, thence southeast to Brooklyn (by S. R. Archer in 1936)	601.98
[Connects with line 9 in Camp Point quadrangle]	
Bowen, 4.0 mi. E. of, 2.0 mi. W. of Augusta, near E $\frac{1}{4}$ cor. sec. 20, T. 3 N., R. 5 W., in NW. angle of crossroads, at concrete culvert under highway, on top of E. end of N. head wall; chiseled square	681.90
Augusta, 1.0 mi. W. of, near quarter corner between secs. 21 and 22, T. 3 N., R. 5 W., at T-rd. S., on N. side of highway, at concrete culvert under driveway N., on top of N. end of E. head wall; chiseled square	676.15

⁵ Established as a reference mark to standard iron post stamped "15 S 1923" and "Prim Trav Sta No 13 1924," described in line 2.

	Feet
Augusta, 0.3 mi. W. of, near center of sec. 22, T. 3 N., R. 5 W., at junction of rd. N., in SW. angle of junction of street S., at concrete highway culvert, on top of W. end of S. head wall; chiseled square—U. S. C. & G. S. standard disk stamped "W 55 1935"-----	674. 37
U. S. C. & G. S. standard disk stamped "X 55 1935"-----	668. 798
Augusta, 0.7 mi. E. of, 0.2 mi. E. of center of sec. 23, T. 3 N., R. 5 W., 140 ft. W. of driveway to farmhouse on N. side of highway, on top of E. end of S. head wall of concrete culvert; chiseled square-----	667. 630
Augusta, 1.5 mi. E. of, near center of sec. 24, T. 3 N., R. 5 W., 75 ft. E. of junction of T-rd. N., at concrete highway culvert, on top of W. end of N. head wall, 10 ft. lower than pavement; chiseled square-----	655. 19
Augusta, 1.5 mi. E. thence 1.2 mi. N. from, 1.8 mi. W. of Oakwood School, 0.25 mi. N. of center of sec. 13, T. 3 N., R. 5 W., 40 ft. S. and 20 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "665"-----	635. 41
Oakwood School, 1.0 mi. W. of, 0.12 mi. W. of center of NW $\frac{1}{4}$ sec. 18, T. 3 N., R. 4 W., 700 ft. E. of Hancock-Schuylerville county line, 100 ft. E. of farmhouse on S. side of rd., on N. side of rd., at fence line, in root on SE. side of 30-in. elm tree; copper nail and washer-----	665. 193
Oakwood School, 0.25 mi. S. of N. cor. secs. 17 and 18, T. 3 N., R. 4 W., 115 ft. E. of right angle in rd. E., on S. side of rd., 50 ft. E. of pump, in schoolyard, in root on NE. side of 15-in. hickory tree; copper nail and washer-----	650. 16
Oakwood School, 0.4 mi. SE. of, 0.2 mi. W. of center of sec. 17, T. 3 N., R. 4 W., 200 ft. E. of right angle turn S. in E.-W. rd., 15 ft. S. of junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 56 1910 642"-----	638. 79
Oakwood School, 0.2 mi. S. and 1.2 mi. E. from, 0.25 mi. W. of center of sec. 16, T. 3 N., R. 4 W., in SE. angle of crossroads, at E. end of concrete tile drain under rd. S.; chiseled square-----	642. 459
Oakwood School, 0.2 mi. S. and 1.6 mi. E. from, 0.11 mi. E. of center of sec. 16, T. 3 N., R. 4 W., on top of E. end of N. head wall of concrete culvert; chiseled square-----	614. 69
Oakwood School, 0.2 mi. S. and 2.0 mi. E. from, near quarter corner between secs. 15 and 16, T. 3 N., R. 4 W., on S. side of rd., at angle NE., 10 ft. N. and 15 ft. E. from fence corner, in root on NW. side of 48-in. oak tree; copper nail and washer-----	594. 12
Oakwood School, 0.2 mi. S. and 2.5 mi. E. from, 1.5 mi. S. and 1.1 mi. W. from Birmingham, 0.12 mi. NW. of center of sec. 15, T. 3 N., R. 4 W., at steel bridge over Flour Creek, on S. cylindrical pier at E. end of bridge, at foot of E. end of S. truss, on outside edge of expansion plate, on top of easternmost bolt head; chiseled cross-----	601. 21
Birmingham, 1.5 mi. S. and 1.0 mi. W. from, near center of sec. 15, T. 3 N., R. 4 W., 35 ft. N. and 25 ft. W. from junction of rd. S., in root on E. side of 36-in. oak tree; copper nail and washer-----	514. 40
Birmingham, 1.5 mi. S. of, near center of sec. 14, T. 3 N., R. 4 W., 23 ft. N. and 30 ft. E. from junction of T-rd. N., 10 ft. E. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "588"-----	597. 92
Reference mark, 150 ft. W. of tablet, 115 ft. W. of junction of T-rd. N., on S. side of rd., at fence line, in root on N. side of forked 12-in. maple tree; copper nail and washer-----	588. 093
	586. 18

506 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Birmingham, 1.5 mi. S. and 0.5 mi. E. from, near quarter corner between secs. 13 and 14, T. 3 N., R. 4 W., at right-angle turn in rd. from E. to S., on N. side of rd., 10 ft. W. of center line of rd. S., in root on S. side of 24-in. elm tree; copper nail and washer-----	490.83
Birmingham, 2.9 mi. SE. of, 3.2 mi. NW. of Brooklyn, 260 ft. W. of quarter corner between secs. 13 and 24, T. 3 N., R. 4 W., 260 ft. W. of angle in rd. from E. to S., at SW. corner of wooden bridge, 3.5 ft. lower than surface of rd., in root on N. side of 8-in. oak tree; copper nail and washer-----	486.62
Brooklyn, 2.4 mi. NW. of, in NE $\frac{1}{4}$ sec. 24, T. 3 N., R. 4 W., at E. concrete abutment of bridge over Lewis Creek, on top of E. end of N. wing wall; chiseled square-----	496.35
Brooklyn, 1.6 mi. W. of, near N. cor. secs. 25 and 30, T. 3 N., Rs. 3 and 4 W., on S. side of State Highway 101, opposite junction of T-rd. N., on W. concrete head wall of culvert under driveway to field; chiseled square-----	576.77
Brooklyn, 0.5 mi. W. of, near SE. cor. sec. 19, T. 3 N., R. 3 W., 75 ft. W. of junction of T-rd. S., on top of E. end of N. head wall of concrete highway culvert; chiseled square-----	573.85
Brooklyn, 335 ft. W. of intersection of Broadway and Kentucky Street, 320 ft. W. of curve in highway, on top of W. end of N. head wall of concrete highway culvert; chiseled square ^a -----	550.73

^a Established as a reference mark to principal bench mark stamped "Prim Trav Sta No 57 1910 17 S 1923," described in line 2.

AVON QUADRANGLE

[Latitude $40^{\circ}30'$ – $40^{\circ}45'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]

FULTON, KNOX, McDONOUGH, AND WARREN COUNTIES

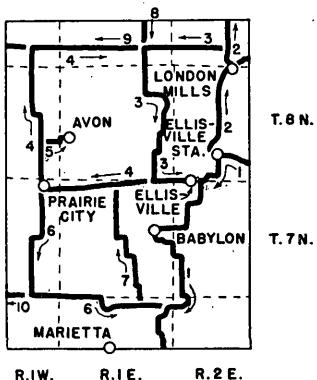


FIGURE 91.—Lines of leveling in Avon quadrangle.

1. From point 4 miles west of Fairview west along Chicago, Burlington & Quincy Railroad to Ellisville Station, thence along roads alternately south and west to Babylon, thence generally south to point 1.3 miles northeast of Seville (by J. B. Leavitt in 1911)

[Continued from Canton quadrangle, line 4]

	Feet
Ellisville Sta., 1.3 mi. E. thence 1.3 mi. N. from Ellisville, 30 ft. N. of water tank; standard iron post with bronze cap-----	523. 177
Ellisville, just E. of bridge over Spoon River, at quarter corner between secs. 5 and 32, Tps. 7 and 8 N., R. 2 E., at junction of T-rd. S., on stone; chiseled cross-----	509. 14
Ellisville, at bridge over Spoon River, in S. side of E. pier; aluminum tablet stamped "517.44" (recovered in 1913)-----	516. 530
Ellisville, 1.5 mi. S. and 0.7 mi. W. from, 1.8 mi. E. thence 1.0 mi. N. from Babylon, 0.25 mi. E. of center of sec. 7, T. 7 N., R. 2 E., at crossroads, on stone; chiseled cross-----	645. 66
Babylon, 1.8 mi. E. of, 0.25 mi. E. of center of sec. 18, T. 7 N., R. 2 E., at junction of E.-W. rd., on stone marking sixteenth corner; chiseled cross-----	517. 37
Babylon, at bridge over Spoon River, in NW. corner of W. pier; aluminum tablet-----	507. 791
Babylon, 170 ft. W. of bridge over Spoon River, on SE. corner of culvert; chiseled cross-----	503. 56
Babylon, 2.4 mi. SE. of, about 1.5 mi. W. of Ziltz Bridge over Spoon River, about 700 ft. E. of SW. cor. sec. 19, T. 7 N., R. 2 E., in NE. angle of junction of E.-W. rd., opposite Pleasant Valley School; standard iron post with bronze cap-----	499. 736

Babylon, 5.4 mi. SE. of, 900 ft. W. of Whites Ferry (Buckeye) Bridge over Spoon River, about 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 6, T. 6 N., R. 2 E., at jog E. in rd., on N. side of rd.; standard iron post with bronze cap (recovered in 1913)-----	Feet 489. 256
Buckeye Bridge over Spoon River, 3.1 mi. SW. of, 2.3 mi. by rd. N. of Seville, 0.25 mi. W. of quarter corner between secs. 12 and 13, T. 6 N., R. 1 E., at junction of E.-W. rd., on stone marking sixteenth corner; chiseled cross-----	615. 48
Seville, about 2 mi. NE. of, at quarter corner between secs. 12 and 13, T. 6 N., R. 1 E., on stone marking quarter corner; chiseled cross-----	613. 34

[Connects with line 1 in Vermont quadrangle]

2. From Ellisville Station north along Chicago, Burlington & Quincy Railroad to London Mills, thence north along road 2.8 miles (by J. B. Leavitt in 1911; leveled twice)

Ellisville Sta., 2.3 mi. N. of, 3.4 mi. S. of London Mills, near quarter corner between secs. 16 and 21, T. 8 N., R. 2 E., 180 ft. S. of milepost 22, 50 ft. W. of track; standard iron post with bronze cap-----	517. 840
London Mills, at bridge over Spoon River, in SW. corner of S. pier; aluminum tablet (recovered in 1924)-----	533. 215
London Mills, at bridge over Spoon River, on W. railing; chiseled cross-----	537. 68

[Continued in Galesburg quadrangle, line 1]

3. From London Mills along roads north 1.2 miles, thence west to point 0.8 mile north and 2.8 miles east from St. Augustine, thence generally south and east to Ellisville (by W. S. Gehres in 1913)

London Mills, 1.2 mi. N. thence 1.5 mi. W. from, 0.8 mi. N. and 5.8 mi. E. from St. Augustine, near S $\frac{1}{4}$ cor. sec. 29, T. 9 N., R. 2 E., in NW. angle of crossroads, in W. right-of-way line of N.-S. rd., 11 ft. N. of N. right-of-way line of E.-W. rd.; standard iron post with bronze cap stamped "653"-----	652. 277
St. Augustine, 0.8 mi. N. and 2.8 mi. E. from, near S $\frac{1}{4}$ cor. sec. 26, T. 9 N., R. 1 E., 25 ft. N. and 18 ft. E. from crossroads; standard iron post with bronze cap stamped "706" (recovered in 1936)-----	704. 529
T. 8 N., R. 1 E., near center of sec. 11, opposite Pleasant Ridge School, in NE. angle of crossroads, 5 ft. N. of N. right-of-way line, 1.5 ft. W. of E. right-of-way line; standard iron post with bronze cap stamped "642"-----	640. 672
T. 8 N., R. 1 E., in SE $\frac{1}{4}$ sec. 12, at bridge over Cedar Creek, on S. end of W. pier of center span; chiseled square-----	552. 72
T. 8 N., R. 1 E., near center of sec. 24, 2.4 mi. W. thence 3.0 mi. N. from Ellisville, in NE. angle of crossroads, 42 ft. N. of N. right-of-way line, 1 ft. W. of E. right-of-way line; standard iron post with bronze cap stamped "704"-----	702. 875
Ellisville, 2.4 mi. W. of, near SW. cor. sec. 36, T. 8 N., R. 1 E., in NE. angle of crossroads, 30 ft. E. of E. right-of-way line, 1 ft. S. of N. right-of-way line; standard iron post with bronze cap stamped "609"-----	608. 251

4. From crossroads 2.4 miles west of Ellisville along roads west to Prairie City, thence north to point 4.8 miles north and 2 miles west from Avon, thence east to crossroads 0.8 mile north and 2.8 miles east from St. Augustine (by W. S. Gehres in 1913)

Ellisville, 4.4 mi. W. of, 4.0 mi. E. of Prairie City, about 0.2 mi. S. of NW. cor. sec. 3, T. 7 N., R. 1 E., in SE. angle of crossroads; standard iron post with bronze cap stamped "652" (Prim. Trav. Sta. No. 17)

Prairie City, 1.0 mi. E. of, at E $\frac{1}{4}$ cor. sec. 1, T. 7 N., R. 1 W., in middle of rd., on stone marking quarter corner; highest point

Prairie City, near quarter corner between secs. 1 and 2, T. 7 N., R. 1 W., in NW. corner of crossroads; standard iron post with bronze cap stamped "668"⁷

Prairie City, 2.5 mi. N. of, 0.2 mi. S. and 1.5 mi. W. from Avon, near SW. cor. sec. 24, T. 8 N., R. 1 W., in NE. angle of crossroads, 5 ft. N. of N. line of E.-W. rd., 2 ft. W. of E. line of N.-S. rd.; standard iron post with bronze cap stamped "678"

Avon, 0.8 mi. N. and 1.5 mi. W. from, near SW. cor. sec. 13, at bridge over Cedar Creek, on E. end of N. abutment; chiseled square

Avon, 1.8 mi. N. and 2.0 mi. W. from, near S $\frac{1}{4}$ cor. sec. 11, T. 8 N., R. 1 W., in NE. angle of junction of T-rd. E., 10 ft. N. of N. line of rd. E., 1 ft. W. of E. line of N.-S. rd.; standard iron post with bronze cap stamped "638"

Avon; 4.8 mi. N. and 2.0 mi. W. from, 0.8 mi. N. and 3.2 mi. W. from St. Augustine, near S $\frac{1}{4}$ cor. sec. 26, T. 8 N., R. 1 W., in NE. angle of crossroads, 41 ft. E. of E. line of N.-S. rd., 1.5 ft. S. of N. line of E.-W. rd.; standard iron post with bronze cap stamped "671" (recovered in 1920)

St. Augustine, 0.8 mi. N. and 2.2 mi. W. from, near S $\frac{1}{4}$ cor. sec. 25, T. 9 N., R. 1 W., in NE. corner of junction of T-rd. N., on E. end of culvert; chiseled square

St. Augustine, 0.8 mi. N. and 1.0 mi. W. from, about 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 30, T. 9 N., R. 1 E., at bridge over Cedar Creek, on N. end of W. abutment; chiseled square

St. Augustine, 0.8 mi. N. and 0.5 mi. W. from, 0.25 mi. W. of quarter corner between secs. 29 and 32, T. 9 N., R. 1 E., at junction of T-rd. S., on stone marking sixteenth corner; highest point

St. Augustine, 0.8 mi. N. and 0.2 mi. W. from, near quarter corner between secs. 29 and 32, T. 9 N., R. 1 E., 26 ft. W. of W. line of N.-S. rd., 2 ft. S. of N. line of E.-W. rd.; standard iron post with bronze cap stamped "665"

St. Augustine, 0.8 mi. N. and 0.3 mi. E. from, at cor. secs. 28, 29, 32, and 33, T. 9 N., R. 1 E., at center of crossroads, on stone marking section corner; highest point

5. From point 2.5 miles north of Prairie City alternately east and north along roads and streets to Avon (by W. S. Gehres in 1913; spur line leveled twice)

Avon, about 0.2 mi. from Chicago, Burlington & Quincy R. R. sta., 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 19, T. 8 N., R. 1 E., in NW. angle of street intersection, 3 ft. W. of W. edge of sidewalk N., 6 ft. S.

⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "S 54 1934;" elevation 660.107 ft.

of S. edge of sidewalk W.; standard iron post with bronze cap stamped "641" ⁸	Feet
	639.850
6. From Prairie City along roads south to point 0.5 mile south and 1.8 miles east from Bushnell, thence east to Buckeye Bridge over Spoon River (by C. R. French in 1913)	
Prairie City, 2.5 mi. S. thence 0.5 mi. W. from, 1.8 mi. E. thence 2.5 mi. N. from Bushnell, near S $\frac{1}{4}$ cor. sec. 14, T. 7 N., R. 1 W., on N. side of rd., in line with E. line of T-rd. S., 2 ft. S. of hedge, 20 ft. E. of fence corner; standard iron post with bronze cap stamped "668"	667.385
Bushnell, 1.8 mi. E. thence 0.5 mi. N. from, near N $\frac{1}{4}$ cor. sec. 35, 45 ft. E. of hedge, 15 ft. N. of fence, on S. concrete head wall of drain; chiseled square	632.71
Bushnell, 1.8 mi. E. thence 0.5 mi. S. from, near N $\frac{1}{4}$ cor. sec. 2, T. 6 N., R. 1 W., in SE. corner of crossroads, 1.5 ft. N. of fence, 12 ft. E. of fence corner, on W. line of rd. N.; standard iron post with bronze cap stamped "633" (recovered in 1936) ⁹	630.466
Bushnell, 0.5 mi. S. and 5.3 mi. E. from, near SE. cor. sec. 32, T. 7 N., R. 1 E., in NW. corner of junction of T-rd. N., 10 ft. NW. of mail box post, 1 ft. S. and 20 ft. W. from fence corner; standard iron post with bronze cap stamped "623"	622.023
T. 6 N., R. 1 E., in SE $\frac{1}{4}$ sec. 4, at SE. corner of bridge over N. branch of Shaw Creek, on coping stone; chiseled square	518.00
T. 6 N., R. 1 E., 0.25 mi. W. of center of sec. 2, about 3 mi. W. of Buckeye Bridge over Spoon River, in NE. corner of junction of rd. N., 0.5 ft. S. and 17 ft. E. from fence corner; standard iron post with bronze cap stamped "616"	614.979
7. From point in sec. 2, T. 6 N., R. 1 E., alternately north and west along roads to point 4 miles east of Prairie City (by C. R. French in 1913)	
T. 7 N., R. 1 E., at quarter corner between secs. 22 and 27, at center of junction of N-S. rd., on stone; chiseled square	623.03
T. 7 N., R. 1 E., near S $\frac{1}{4}$ cor. sec. 15, 0.5 mi. S. and 1.5 mi. W. from Babylon, on N. side of rd., 10 ft. E. of E. line of rd. S., 2 ft. S. of hedge; standard iron post with bronze cap stamped "638"	637.326
Babylon, about 2 mi. W. of, 4.0 mi. E. thence 2.3 mi. S. from, near W $\frac{1}{4}$ cor. sec. 15, T. 7 N., R. 1 E., in NE. corner of crossroads, 15 ft. S. and 15 ft. W. from fence corner, on stone; chiseled square	642.37
8. From point 2.2 miles north and 2.8 miles east from St. Augustine south along road 1.4 miles (by G. F. Williams in 1924) ¹⁰	
[Continued from Galesburg quadrangle, line 7]	
St. Augustine, 1.8 mi. N. and 2.8 mi. E. from, near N $\frac{1}{4}$ cor. sec. 26, T. 9 N., R. 1 E., 25 ft. S. and 35 ft. E. from crossroads, 15 ft. E. of hedge, at fence line on S. side of rd.; top of 2-in. iron pipe with cap	699.49

⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Q 54 1934," elevation 639.192 ft.

⁹ In 1937 this bench mark was moved 0.7 ft. south and 4 ft. east from this position and reset at an elevation 1.069 ft. lower than that originally determined. The figures given represent the new elevation.

¹⁰ An excessive error in this line has been disposed of by adjustment.

9. From point 0.8 mile north and 2.8 miles east from St. Augustine west along road 2.6 miles to point on Chicago, Burlington & Quincy Railroad 0.8 mile north of St. Augustine (by W. C. Elledge in 1936)

	Feet
St. Augustine, 0.8 mi. N. and 2.2 mi. E. from, near SE. cor. sec. 27, T. 9 N., R. 1 E., 30 ft. N. and 20 ft. W. from junction of T-rd. N., on W. head wall of concrete culvert; chiseled square-----	705.93
St. Augustine, 0.8 mi. N. and 1.2 mi. E. from, near SW. cor. sec. 27, T. 9 N., R. 1 E., 35 ft. N. and 15 ft. E. from junction of T-rd. N., in center of top of E. head wall of concrete culvert; chiseled square-----	680.37
U. S. C. & G. S. Standard disk stamped "L 54 1934"-----	655.625
10. From crossroads 0.5 mile south and 1.8 miles east from Bushnell west along road 1.3 miles (by W. C. Elledge in 1936)	
Bushnell, 0.5 mi. S. and 0.8 mi. E. from, near N $\frac{1}{4}$ cor. sec. 3, T. 6 N., R. 1 W., 72 ft. E. of hedge fence S., on S. head wall of concrete culvert; chiseled square-----	632.05

[Connects with line 1 in Good Hope quadrangle]

BARRY QUADRANGLE

[Latitude $39^{\circ}30'$ - $39^{\circ}45'$; longitude $91^{\circ}00'$ - $91^{\circ}15'$]

PIKE COUNTY

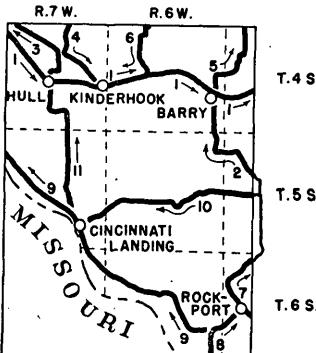


FIGURE 92.—Lines of leveling in Barry quadrangle.

1. From point 1 mile southeast of Seehorn southeast along Chicago, Burlington & Quincy Railroad to Hull, thence east along Wabash Railway to point 2.2 miles east of Barry (by R. G. Clinite in 1914)

[Continued from Quincy quadrangle, line 2] ¹¹

Hull, at grade crossing of C. B. & Q. R. R. and Wabash Ry.; top of rail	Feet
	469.5
Hull, in SE. part of, in NW. corner of schoolyard, 3 ft. S. of S. right-of-way fence of Wabash Ry.; standard iron post with bronze cap stamped "469" (recovered by U. S. C. & G. S. in 1935; probably disturbed)	468.437
Hull, 1.4 mi. E. of, at R. R. bridge over McCraney Creek, at S. side of E. stone abutment, on top course; chiseled square	484.50
Kinderhook, in front of sta.; top of rail	480.0
Kinderhook, 300 ft. NW. of sta., in rear of blacksmith shop, in SE. corner of pasture lot owned by C. Dilley, on N. side of right-of-way line, 4 ft. W. of corner post; standard iron post with bronze cap stamped "478" (recovered by U. S. C. & G. S. in 1935)	478.263
Kinderhook, 3.6 mi. E. of, 2.8 mi. NW. of Barry, 200 ft. S. and 80 ft. E. from junction of highway and rd. N., 120 ft. S. of track; standard iron post with bronze cap stamped "546" (recovered by U. S. C. & G. S. in 1935)	545.475
Barry, 1.6 mi. NW. of, at R. R. bridge over Hadley Creek, at NE. side of SE. abutment, on top course; chiseled square	564.03
Barry, in front of sta.; top of rail	672.8

[Continued in Pittsfield quadrangle, line 1]

¹¹ This line crosses the northeast corner of Hannibal quadrangle but no bench marks were established on that portion of the line.

2. From point 1.2 miles northwest of El Dara northwest to quarter corner between secs. 1 and 12, T. 5 S., R. 6 W., thence north to Barry (by B. H. Yoakum and W. A. Shumate in 1921)

[Continued from Pittsfield quadrangle, line 3]

Barry, 140 ft. N. and 400 ft. E. from sta., 100 ft. NE. of stockyard scales, 10 ft. S. of fence corner, on E. side of N.-S. rd., in pasture; standard iron post with bronze cap stamped "683" (recovered by U. S. C. & G. S. in 1935)	683. 148
El Dara, 1.9 mi. NW. of, in SW $\frac{1}{4}$ sec. 8, T. 5 S., R. 5 W., 65 ft. NW. of junction of second-class rd. SW., in root on E. side of 24-in. sugar-maple tree; copper nail and washer	599. 12 Feet
El Dara, 2.7 mi. NW. of, 0.25 mi. W. of SE. cor. sec. 6, T. 5 S., R. 5 W., 0.25 mi. E. of Collins School, at angle from NW. to W. in rd., near W. bank of Bull Run, on N. side of rd., in root on S. side of 18-in. elm tree; copper nail and washer	554. 42
El Dara, 3.2 mi. NW. of, 0.25 mi. E. of SW. cor. sec. 6, T. 5 S., R. 5 W., 0.25 mi. W. of Collins School, at junction of private rd. S., on N. side of rd., in root of double elm tree; copper nail and washer	538. 15
El Dara, 3.4 mi. NW. of, 3.2 mi. S. thence 0.6 mi. E. from R. R. sta. at Barry, near SW. cor. sec. 6, T. 5 S., R. 5 W., at SE. end of iron bridge over Kiser Creek, in NE. concrete wing wall, 6.5 ft. from back wall; aluminum tablet stamped "541"	540. 881
Barry, 3.1 mi. S. of, near S $\frac{1}{4}$ cor. sec. 1, T. 5 S., R. 6 W., 50 ft. N. of junction of T-rd. N., on E. end of small concrete culvert; chiseled square	540. 37
Barry, 2.6 mi. S. of, near center of sec. 1, T. 5 S., R. 6 W., at curve in rd., on E. end of small culvert; chiseled square	568.79
Barry, 1.8 mi. S. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 36, T. 4 S., R. 6 W., on E. head wall of concrete culvert; chiseled square	616. 42
Barry, 1.3 mi. S. of, 0.2 mi. N. of center of sec. 36, T. 4 S., R. 6 W., 305 ft. N. of junction of rd. W., on E. side of rd., in root of 48-in. locust tree; copper nail and washer	706. 22
Barry, at SE. corner of square, on N. side of E.-W. concrete sidewalk, near S. end of small curve; chiseled square	731. 14
3. From Hull along roads alternately north and east to road junction near quarter corner between secs. 10 and 15, T. 4 S., R. 7 W., thence northwest to point 1.1 miles southeast of Seehorn (by W. A. Shumate in 1921)	
Hull, 0.5 mi. N. thence 0.5 mi. E. from, near S $\frac{1}{4}$ cor. sec. 15, T. 4 S., R. 7 W., in NW. angle of crossroads, on concrete retaining wall of culvert; chiseled square	472. 31
Hull, 1.5 mi. N. and 0.5 mi. E. from, near Walnut Creek School, near S $\frac{1}{4}$ cor. sec. 10, T. 4 S., R. 7 W., 100 ft. S. of junction of NW.-SE. rd., at E. side of S. abutment of bridge over Walnut Creek, on top course; chiseled square (recovered in 1926)	492. 04
Hull, 2.6 mi. NW. of, 2.9 mi. SE. of Seehorn, 0.15 mi. NE. of center of sec. 9, T. 4 S., R. 7 W., 300 ft. SE. of junction of rd. S., on NE. side of rd., at steps to dwelling of F. E. Hoyt, on bottom concrete step; chiseled square	502. 45
Seehorn, 1.6 mi. SE. of, at bridge over Pigeon Creek, on NE. abutment, in top of stone wall; aluminum tablet stamped "1921 490"	490. 170

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Seehorn, 1.1 mi. SE. of, near quarter corner between secs. 5 and 6, T. 4 S., R. 7 W., in SE. angle of junction of second-class rd. S., at entrance to Pigeon Creek Church, on concrete approach; chiseled square

Feet
481. 26

[Continued in Liberty quadrangle, line 1]

4. From point 2.5 miles south of Plainville south and southeast along highways to Kinderhook (by E. O. Brooks in 1921; leveled between Akers Chapel and Walnut Creek School by J. M. Lawson in 1926)

[Continued from Liberty quadrangle, line 3]

Plainville, 3.1 mi. S. of, 3.7 mi. NW. of Kinderhook, 0.15 mi. E. of S $\frac{1}{4}$ cor. sec. 3, T. 4 S., R. 7 W., 200 ft. W. of highway, at E. end of Akers Chapel, at S. entrance, in second concrete step; standard tablet stamped "47 EB 1921 591"

591. 312

Reference mark, 5 ft. W. of tablet, on same step; chiseled square

591. 28

Kinderhook, 2.6 mi. NW. of, near Walnut Creek School, 0.12 mi. E. of N $\frac{1}{4}$ cor. sec. 15, T. 4 S., R. 7 W., at junction of highway and rd. NW., on S. side of highway, 15 ft. E. of small levee, in root on N. side of 24-in. hackberry tree; copper nail and washer (established in 1926)

496. 34

5. From Barry north 1 mile, thence east and north to point near quarter corner between secs. 5 and 6, T. 4 S., R. 5 W. (by E. O. Brooks in 1921)

Barry, 0.8 mi. N. of sta., near N $\frac{1}{4}$ cor. sec. 24, T. 4 S., R. 6 W., in SW. angle of rd. junction, in root of 36-in. elm tree; copper nail and washer

621. 04

Barry, 2.0 mi. NE. of, 0.2 mi. N. of Oak Grove School, 0.12 mi. N. and 0.1 mi. E. from S $\frac{1}{4}$ cor. sec. 18, T. 4 S., R. 5 W., in SW. angle of rd. junction, on N. end of W. retaining wall of concrete culvert; chiseled square

618. 00

Barry, 3.0 mi. NE. of, near SW. cor. sec. 8, T. 4 S., R. 5 W., at right angle in rd. from E. to N., on E. side of N.-S. rd., 5 ft. N. of private rd. E., 2 ft. W. of fence, in concrete post; standard tablet stamped "48 EB 1921 654"

653. 992

Barry, 4.0 mi. NE. of, near NE. cor. sec. 7, T. 4 S., R. 5 W., in SW. angle of crossroads, diagonally opposite Buckeye School, on E. end of S. retaining wall of concrete culvert; chiseled square

664. 02

[Continued in Liberty quadrangle, line 5]

6. From point near quarter corner between secs. 4 and 5, T. 4 S., R. 6 W., south along roads to State Highway 36, thence southwest along highway to Kinderhook (by V. S. Seward in 1922)

[Continued from Liberty quadrangle, line 8]

Kinderhook, 2.7 mi. NE. along highway thence 0.7 mi. NW. from, 0.2 mi. NE. of center of sec. 17, T. 4 S., R. 6 W., 100 ft. NE. of large brick house owned by Fred Churchill, on SW. side of second-class rd., on concrete abutment; chiseled square

590. 76

Kinderhook, 2.7 mi. NE. of, near NE. cor. sec. 20, T. 4 S., R. 6 W., 40 ft. S. of junction of State Highway 36 and rd. N., in concrete post; standard tablet stamped "S 1922"

530. 655

7. From point 2 miles northwest of Atlas northwest along improved road by way of Rockport 2.2 miles, thence northeast to point 3.5 miles south of El Dara (by S. R. Archer in 1924)

[A jog from Pittsfield quadrangle, line 4]

Rockport, 365 ft. SE. and 35 ft. SW. from intersection of Main and Broad Streets, 250 ft. SE. of E. corner of schoolhouse, 11 ft. SW. of E. corner of schoolyard, on N. side of fence, in concrete post; standard tablet stamped "33 A 1924" (recovered in 1926)-----	Feet 488.708
Reference mark, 250 ft. NW. of tablet, 50 ft. NE. of E. corner of schoolhouse, on SW. side of street, in root on NE. side of 24-in. maple tree; copper nail and washer (recovered in 1926)-----	491.18
Rockport, on SW. side of Main Street, at N. corner of concrete block building, property of Haines, Rupert & Co., at main entrance, on W. end of concrete doorsill; chiseled square (recovered in 1936; building reported destroyed) ¹² -----	490.99
Rockport, on NE. side of Main Street, at S. corner of brick building, property of William H. Ogle, at foot on NW. side of steel column at SE. end of store front, on steel base of store front; chiseled square ¹² -----	493.91
Rockport, 0.7 mi. NW. of, 0.25 mi. NE. of center of sec. 18, T. 6 S., R. 5 W., 50 ft. SE. of dwelling of Charles Davis, on SW. side of highway, in field, in root on E. side of 15-in. walnut tree; copper nail and washer-----	464.65
Rockport, 1.5 mi. NW. of, 0.1 mi. S. and 0.25 mi. W. from center of sec. 7, T. 6 S., R. 5 W., 20 ft. NW. thence 20 ft. NE. from crossroads, 3 ft. NW of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 66 W 1923 34A"-----	469.407
Reference mark, 100 ft. NW. of tablet, on NE. side of rd., in yard, in root on W. side of 42-in. maple tree; copper nail and washer-----	468.39
Rockport, 1.5 mi. NW. thence 0.8 mi. NE. from, in NE $\frac{1}{4}$ sec. 7, T. 6 S., R. 5 W., 50 ft. W. of junction of rd. SE., at culvert under NE.-SW. rd., at center of top of N. head wall; chiseled square-----	506.70
Rockport, 1.5 mi. NW. thence 1.7 mi. NE. from, 4.0 mi. SW. of El Dara, 0.1 mi. NW. of center of sec. 5, T. 6 S., R. 5 W., 100 ft. NE. of dwelling of H. McAllister, 30 ft. NW. and 6 ft. SW. from W. corner of barn, on SE. side of rd., SW. of gate, in root on N. side of 6-in. maple tree; copper nail and washer-----	723.29

[Continued in Pittsfield quadrangle, line 4]

8. From point near center of sec. 36, T. 6 S., R. 6 W., north and northeast along roads to Rockport (by S. R. Archer in 1926; relevelled by J. M. Lawson in same year)

[Continued from Bowling Green quadrangle, line 1]

Rockport, 3.0 mi. SW. of, 3.5 mi. N. of Pike, 0.2 mi. S. of center of sec. 25, T. 6 S., R. 6 W., on S. bank of Coon Slough, in NW. angle of junction of private rd. W., in top of knot on W. side of 30-in. birch tree; copper nail and washer-----	450.24
Rockport, 2.3 mi. SW. of, 0.1 mi. N. of S $\frac{1}{4}$ cor. sec. 24, T. 6 S., R. 6 W., in SE. angle of crossroads, in NW. corner of yard of farmhouse, in root on W. side of 24-in. pecan tree; copper nail and washer-----	454.05

¹² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "M 80 1935," elevation 475.114 ft.

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	Feet
Rockport, 1.2 mi. SW. of, near center of sec. 19, T. 6 S., R. 5 W., at angle from NE. to E. in rd., on N. bank of pond, on SE. side of rd., at SW. side of gate, in root on W. side of 24-in. elm tree; copper nail and washer-----	453. 45
9. From crossroads 2.3 miles southwest of Rockport west along road to Mississippi River, thence northwest along levee road by way of Cincinnati Landing to point 0.4 mile east of foot of Saverton Island (by S. R. Archer in 1928; leveled to point opposite head of Gilbert Island by J. M. Lawson in same year)	
Rockport, 2.3 mi. SW. thence 1.3 mi. W. from, 9.2 mi. SE. of Cincinnati Landing, 0.3 mi. W. of quarter corner between secs. 23 and 26, T. 6 S., R. 6 W., 0.18 mi. E. of E. bank of Mississippi River, 15 ft. S. and 15 ft. W. from angle in rd. from W. to NW., at foot on E. side of Sny levee, 8 ft. N. and 3 ft. W. from fence corner, in post; standard tablet stamped "P T Sta No 162 F 1925"-----	452. 494
Rockport, 3.6 mi. SW. of, 213 ft. E. of Sny levee, 410 ft. S. of angle in rd., 460 ft. E. of E. bank, 425 ft. SW. of dwelling of Gilbert Shaw, on NE. bank of slough, 7 ft. W. of blazed elm tree; Mississippi River Comm. B. M. 87/2	
cap on iron pipe-----	451. 570
bolt in tile-----	447. 550
Cincinnati Landing, 8.0 mi. SE. of, 0.25 mi. NW. of SE. cor. sec. 15, T. 6 S., R. 6 W., 0.16 mi. SE. of levee milepost 27-28, 0.14 mi. NW. of junction of private rd. E. along section line, on E. side of levee rd., 20 ft. W. of fence, in root on E. side of 24-in. pecan tree; copper nail and washer-----	455. 04
Cincinnati Landing, 7.2 mi. SE. of, in NW $\frac{1}{4}$ sec. 15; T. 6 S., R. 6 W., 0.21 mi. SE. of levee milepost 26-27, at junction of private rd. NW., on NE. side of levee rd., in root on SW. side of 10-in. persimmon tree; copper nail and washer-----	455. 24
Cincinnati Landing, 5.8 mi. SE. of, 0.15 mi. SE. of NW. cor. sec. 16, T. 6 S., R. 6 W., 150 ft. W. of levee milepost 25-26, on N. side of levee rd., in SW. corner of yard of farmhouse, in root on W. side of 12-in. pecan tree; copper nail and washer-----	453. 56
Cincinnati Landing, 5.3 mi. SE. of, 0.25 mi. W. of NE. cor. sec. 17, T. 6 S., R. 6 W., opposite head of Cottonwood Island, 0.5 mi. SE. of levee milepost 24-25, 180 ft. N. of levee, 3 ft. S. of blazed tree in fence line; Mississippi River Comm. B. M. 88/2	
cap on iron pipe-----	455. 230
bolt in tile-----	451. 220
Cincinnati Landing, 4.4 mi. SE. of, 0.15 mi. S. of quarter corner between secs. 7 and 8, T. 6 S., R. 6 W., 0.3 mi. NW. of levee milepost 24-25, in NW. angle of junction of rd. N., 110 ft. W. of gate in fence crossing levee rd., in root on S. side of 6-in. tree, southernmost of two elm trees standing 3 ft. apart; copper nail and washer-----	456. 72
Cincinnati Landing, 3.9 mi. SE. of, 0.2 mi. NE. of center of sec. 7, T. 6 S., R. 6 W., 0.3 mi. SE. of levee milepost 23-24, 40 ft. NE. of levee, at W. corner of triangle at junction of second-class rd. NE., in concrete post; standard tablet stamped "P T Sta No 161 F 1925"-----	458. 308

	Feet
Cincinnati Landing, 3.0 mi. SE. of, 0.15 mi. SE. of NW. cor. sec. 7, T. 6 S., R. 6 W., 0.3 mi. SE. of levee milepost 22-23, 270 ft. SE. of point where line between Rs. 6 and 7 crosses levee rd., 130 ft. W. of dwelling, in fence line, at SE. corner of garden, in root on SE. side of 42-in. elm tree; copper nail and washer-----	453.90
Cincinnati Landing, 2.1 mi. SE. of, 0.2 mi. W. of center of sec. 1, T. 6 S., R. 7 W., 0.4 mi. SE. of levee milepost 21-22, 60 ft. NE. of rd., at S. edge of cultivated field, in root on SW. side of lone 36-in. oak tree; copper nail and washer-----	454.35
Cincinnati Landing, 1.5 mi. SE. of, near NW. cor. sec. 1, T. 6 S., R. 7 W., 0.2 mi. NW. of levee milepost 21-22, 0.15 mi. SE. of point where line between Tps. 5 and 6 crosses levee, 70 ft. NE. of rd., on N. side of driveway, in root on W. side of 36-in. oak tree; copper nail and washer-----	456.44
Cincinnati Landing, 0.5 mi. SE. of, in NE $\frac{1}{4}$ sec. 35, T. 5 S., R. 7 W., 300 ft. N. of levee milepost 20-21, 100 ft. E. of rd., in field, in root on S. side of southernmost of two 24-in. pecan trees standing 12 ft. apart; copper nail and washer-----	456.75
Cincinnati Landing, 400 ft. NW. of crossroads, in SE $\frac{1}{4}$ sec. 26, T. 5 S., R. 7 W., 0.4 mi. SE. of levee milepost 19-20, 65 ft. E. of levee rd., 50 ft. E. of NW. corner of schoolyard, at fence line along N. side of yard, in concrete post; standard tablet stamped "Prim Trav Sta No 157 F 1925"-----	457.916
Reference mark, 290 ft. SE. of tablet, 110 ft. NW. of crossroads, on E. side of rd., 15 ft. W. of fence, in root on W. side of 24-in. pecan tree; copper nail and washer-----	454.15
Cincinnati Landing, 1.0 mi. NW. of, 0.1 mi. SW. of N. cor. secs. 26 and 27, T. 5 S., R. 7 W., 50 ft. S. and 60 ft. E. from junction of rd. NE., 30 ft. S. and 15 ft. E. from fence corner, in field, in root on W. side of 30-in. elm tree; copper nail and washer-----	455.16
Cincinnati Landing, 1.4 mi. NW. of, in SE $\frac{1}{4}$ sec. 22, T. 5 S., R. 7 W., 490 ft. SE. of levee milepost 18-19, opposite head of Gilbert Island, 138 ft. NE. of levee, 607 ft. SE. of dwelling, on property of H. B. Adkinson, at W. edge of cultivated field; Mississippi River Comm. B. M. 90/2 cap on iron pipe----- bolt in tile-----	456.940 452.930
Cincinnati Landing, 2.0 mi. NW. of, 0.12 mi. S. and 0.25 mi. W. from center of sec. 22, T. 5 S., R. 7 W., near S. end of Big Cutoff, in NW. angle of rd. junction, 15 ft. NE. of levee rd., 15 ft. W. of second-class rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 156 F 1925"-----	457.429
Reference mark, 90 ft. SE. of tablet, on NE. side of levee rd., in root on W. side of 48-in. elm tree; copper nail and washer-----	458.74
Cincinnati Landing, 2.7 mi. NW. of, in NE $\frac{1}{4}$ sec. 21, T. 5 S., R. 7 W., 0.2 mi. NW. of levee milepost 17-18, on NE. side of levee rd., on N. side of private rd. E. to dwelling, in root on E. side of three-forked pecan tree; copper nail and washer-----	456.71
Cincinnati Landing, 3.6 mi. NW. of, 0.3 mi. S. of quarter corner between secs. 16 and 17, T. 5 S., R. 7 W., 0.1 mi. NW. of levee milepost 16-17, on NE. side of levee rd., in root on N. side of large forked locust tree; copper nail and washer-----	459.74

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Cincinnati Landing, 4.7 mi. NW. of, 0.15 mi. W. of quarter corner between secs. 8 and 17, T. 5 S., R. 7 W., 0.16 mi. NW. of levee milepost 15-16, 0.3 mi. E. of head of Browns Island, 200 ft. SE. of gate in fence across rd., on NE. side of levee and rd., in fence line, in root on SW. side of northwesternmost of two 24-in. pecan trees standing 35 ft. apart; copper nail and washer	459.74
Cincinnati Landing, 5.2 mi. NW. of, 8.5 mi. SE. of East Hannibal, 0.25 mi. S. of quarter corner between secs. 7 and 8, T. 5 S., R. 7 W., 0.4 mi. SE. of levee milepost 14-15, 325 ft. S. of dwelling, 45 ft. W. of section-line rd. N., on NE. side of levee rd., 50 ft. NE. of levee, in concrete post; standard tablet stamped "Prim Trav Sta No 155 F 1925"	461.896
Cincinnati Landing, 5.2 mi. NW. thence 0.8 mi. E. from, 0.33 mi. NW. of cor. secs. 8, 9, 16, and 17, T. 5 S., R. 7 W., on SW. bank of dry pond, on property of James and Brown, at NE. edge of cultivated field, on N. side of rd., 3 ft. SW. of fence; Mississippi River Comm. B. M. 91/1	
cap. on iron pipe	454.545
bolt in tile	450.535
[Continued in Hannibal quadrangle, line 1]	
10. From El Dara west and southwest along roads to Cincinnati Landing (by J. M. Lawson in 1926)	
[Connects with line 3 in Pittsfield quadrangle]	
El Dara, 1.0 mi. W. of, near SW. cor. sec. 17, T. 5 S., R. 5 W., 35 ft. N. and 56 ft. E. from crossroads, in root on SW. side of 15-in. wild-cherry tree; copper nail and washer	710.33
El Dara, 2.1 mi. W. of, 25 ft. N. and 65 ft. E. from W. cor. secs. 18 and 19, T. 5 S., R. 5 W., on N. side of rd., 2 ft. S. of fence line, in root on N. side of 15-in. oak tree; copper nail and washer	763.07
El Dara, 2.4 mi. W. of, 0.3 mi. W. of E. cor. secs. 13 and 24, T. 5 S., R. 6 W., 40 ft. N. and 18 ft. E. from junction of T-rd. N., 5 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "P T Sta No 160 F 1925"	730.950
Reference mark, 420 ft. W. and 60 ft. S. from tablet, 45 ft. S. of rd., 40 ft. E. of E. side of house, in field, in root on NE. side of 16-in. oak tree; copper nail and washer	741.13
El Dara, 3.2 mi. W. of, 1.9 mi. NE. of Brewster School, near NW. cor. sec. 24, T. 5 S., R. 6 W., 10 ft. E. of N.-S. fence, in line with fence SW., 10 ft. SE. of rd., in root on N. side of 15-in. hickory tree; copper nail and washer	675.21
Brewster School, 0.7 mi. NE. of, 0.1 mi. E. of W $\frac{1}{4}$ cor. sec. 23, T. 5 S., R. 6 W., 45 ft. S. of S. bank of Brewster Creek, about midway between two houses on SE. side of rd., in root on N. side of lone 20-in. maple tree; copper nail and washer	543.73
Brewster School, 2.0 mi. SE. of New Canton, 0.25 mi. S. of center of sec. 22, T. 5 S., R. 6 W., 210 ft. NE. of junction of Kinderhook-Rockport rd., in W. corner of schoolyard, 2 ft. S. and 12 ft. E. from fence corner, in concrete post; standard tablet stamped "P T Sta No 159 F 1925" ¹⁸	495.395

¹⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 80 1925," elevation 465.015 ft.

	Feet
Reference mark, 145 ft. SE. of tablet, on SW. corner of schoolhouse steps; chiseled square	497.12
Brewster School, 0.4 mi. NW. thence 0.3 mi. W. from, near E $\frac{1}{4}$ cor. sec. 21, T. 5 S., R. 6 W., 35 ft. S. and 18 ft. W. from junction of T-rd. S., 35 ft. S. and 22 ft. E. from junction of T-rd. N., on W. side of rd., 8 ft. E. of fence, in root on NW. side of 24-in. maple tree; copper nail and washer	467.33
Brewster School, 0.4 mi. NW. thence 1.1 mi. W. from, 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 21, T. 5 S., R. 6 W., 20 ft. N. and 90 ft. W. from junction of T-rd. N., outside fence, in root on S. side of 48-in. cottonwood tree; copper nail and washer (recovered in 1936)	461.84
Brewster School, 0.4 mi. NW. thence 2.0 mi. W. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 20, T. 5 S., R. 6 W., near NE. corner of yard of H. L. Nichols, 3 ft. NW. of fence corner, on S. side of rd., in root on NW. side of 12-in. elm tree; copper nail and washer	459.04
Brewster School, 0.4 mi. NW. thence 2.3 mi. W. from, 3.1 mi. NE. of Cincinnati Landing, 1.3 mi. S. and 1.5 mi. W. from New Canton, near quarter corner between secs. 19 and 20, T. 5 S., R. 6 W., 30 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 158 F 1925" ¹⁴	457.843
Cincinnati Landing, 2.8 mi. NE. of, 0.12 mi. E. of center of sec. 19, T. 5 S., R. 6 W., at angle SW. in rd., on N. side of rd., at SW. corner of concrete porch of dwelling; top of reinforcing rod projecting above concrete	457.32
Cincinnati Landing, 1.6 mi. NE. of, 0.2 mi. S. of NE. cor. sec. 25, T. 5 S., R. 7 W., 90 ft. W. of junction of rd. S., on NW. side of rd., at fence line, in root on S. side of 36-in. oak tree; copper nail and washer	457.32
Cincinnati Landing, 0.4 mi. E. of, 0.2 mi. N. of SW. cor. sec. 25, T. 5 S., R. 7 W., on NE. side of Running Slough, 30 ft. S. of junction of rd. NW., in line with fence, in root on N. side of 24-in. white-birch tree; copper nail and washer	455.58
11. From point 1.4 miles northwest of Cincinnati Landing north along roads to Hull (by J. M. Lawson in 1926)	
Cincinnati Landing, 1.0 mi. NW. thence 0.4 mi. N. from, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 23, T. 5 S., R. 7 W., on SE. side of Swain Slough, 360 ft. NE. of angle in rd. from N. to NE., in orchard, on SE. side of rd., 20 ft. S. of fence line, in root on N. side of westernmost of two plum trees standing 5 ft. apart; copper nail and washer	458.75
Cincinnati Landing, 1.0 mi. NW. thence 1.6 mi. N. from, near E $\frac{1}{4}$ cor. sec. 15, T. 5 S., R. 7 W., 120 ft. W. of Wike Chapel School, 50 ft. S. and 50 ft. W. from crossroads, in root on SW. side of large twin oak trees; copper nail and washer	456.28
Cincinnati Landing, 1.0 mi. NW. thence 2.1 mi. N. from, near E. cor. secs. 10 and 15, T. 5 S., R. 7 W., 30 ft. W. of rd., in line with E.-W. fence E. of rd., in root on W. side of 14-in. elm tree; copper nail and washer	454.62

¹⁴ By comparison with other bench marks in the vicinity this mark appears to have been raised about 0.1 ft. In 1936 it was tied to U. S. C. & G. S. standard disk stamped "R 80 1935," elevation 465.015 ft.

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	Feet
Cincinnati Landing, 1.0 mi. NW. thence 3.1 mi. N. from, near NE. cor. sec. 10, T. 5 S., R. 7 W., 45 ft. S. and 95 ft. W. from crossroads, 70 ft. NE. of NE. corner of dwelling, in root on N. side of 30-in. maple tree; copper nail and washer-----	458.28
Cincinnati Landing, 1.0 mi. NW. thence 4.1 mi. N. from, 2.5 mi. S. and 1.0 mi. E. from Hull, near NW. cor. sec. 2, T. 5 S., R. 7 W., 130 ft. SW. of Shinn School, 35 ft. S. and 25 ft. E. from crossroads, 15 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "3 L 1926"-----	461.530
Reference mark, 90 ft. N. and 5 ft. E. from tablet, 35 ft. SW. of SW. corner of schoolhouse, in root on E. side of 30-in. elm tree; copper nail and washer-----	462.44
Hull, 1.5 mi. S. thence 1.0 mi. E. from, near NE. cor. sec. 34, T. 4 S., R. 7 W., 0.15 mi. E. of McCraney Creek, 30 ft. S. and 70 ft. W. from rd. junction, 1 ft. N. of fence, in root on E. side of 12-in. pecan tree; copper nail and washer-----	464.75
Hull, 1.5 mi. S. of, near SW. cor. sec. 27, T. 4 S., R. 7 W., 22 ft. N. and 10 ft. E. from rd. junction, at bridge over small creek, on NE. corner of N. concrete abutment; chiseled cross-----	462.59
Hull, 0.5 mi. S. of, near SE. cor. sec. 21, T. 4 S., R. 7 W., 240 ft. N. and 20 ft. W. from crossroads, in root on S. side of twin pecan trees; copper nail and washer-----	461.57

BEARDSTOWN QUADRANGLE

[Latitude $40^{\circ}00'$ - $40^{\circ}15'$; longitude $90^{\circ}15'$ - $90^{\circ}30'$]

CASS, FULTON, MASON, AND SCHUYLER COUNTIES

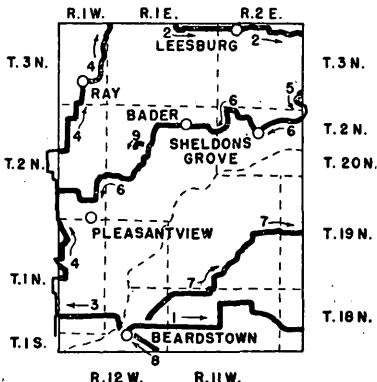


FIGURE 93.—Lines of leveling in Beardstown quadrangle.

1. From Beardstown generally east along roads to point 5.8 miles southwest of Chandlerville (by P. E. Fletcher in 1908)

Beardstown, at E. corner of intersection of Main and Washington Streets, at main entrance to Odd Fellows Building, in top of stone step, 6 in. from front edge and 17 in. from S. edge, leaded vertically; copper bolt (U. S. C. E. P. B. M. 26; recovered in 1927)-----
Beardstown, 5.6 mi. E. of, 0.25 mi. W. of NE. cor. sec. 16, T. 18 N., R. 11 W., at E. entrance of brick schoolhouse, on NE. corner of stone step; nature of mark not reported-----

Beardstown, 5.6 mi. E. thence 1.3 mi. N. from, near center of SE $\frac{1}{4}$ sec. 4, T. 18 N., R. 11 W., in concrete post; aluminum tablet-----

Beardstown, 8.2 mi. by direct rd. E. of, in NW $\frac{1}{4}$ sec. 12, T. 18 N., R. 11 W., on N. side of rd. following foothills of Sangamon Valley, at farmhouse of A. H. Krohe, in SE. corner of front yard, 2.6 ft. N. of front fence, 2.8 ft. W. of E. fence of dooryard, 30 ft. SE. of 60-in. double cottonwood tree, in sandstone block set underground; U. S. C. E. P. B. M. 29

cap on pipe-----
copper bolt-----

[Continued in Chandlerville quadrangle, line 2]

2. From point 1.6 miles north and 1.1 miles west from Astoria along roads south 0.2 mile, thence generally east to point about 4 miles east of Leesburg (by S. L. Parker in 1919; relevelled from point 0.8 mile east of Leesburg by W. A. Shumate in 1923)

[Continued from Vermont quadrangle, line 3]

Astoria, 1.6 mi. N. thence 1.2 mi. W. from, 0.2 mi. S. of NE cor. sec. 15, T. 3 N., R. 1 E., 50 ft. E. of bend in rd., in root on S. side of blazed 18-in. walnut tree; copper nail and washer-----

634.17

Feet
443.910

477.01

442.756

477.509

473.555

Astoria, 1.6 mi. N. thence 0.8 mi. W. from, 0.2 mi. E. of NW. cor. sec. 14, T. 3 N., R. 1 E., in SE. angle at turn from N. to E. in rd., 35 ft. SE. of SE. fence corner, in field, in root on N. side of 14-in. hickory tree; copper nail and washer	Feet 635. 36
Astoria, 1.6 mi. N. of, 2.0 mi. W. of Leesburg, 15 ft. S. and 35 ft. E. from NW. cor. sec. 13, T. 3 N., R. 1 E., in SE. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 10 1916 645" ¹⁵	645. 338
Leesburg, 0.8 mi. W. of, 0.22 mi. E. of SW. cor. sec. 7, T. 3 N., R. 2 E., 75 ft. E. of rd. junction, on N. side of lane E. through field, in root on S. side of 12-in. elm tree; copper nail and washer	630. 43
Leesburg, 0.8 mi. W. of, 0.25 mi. NW. of SE. cor. sec. 8, T. 3 N., R. 2 E., at junction of rd. NE., on N. side of rd., 5 ft. E. of fence corner, 1 ft. S. of wire fence; standard iron post with bronze cap stamped "1919 650"	649. 375
Leesburg, 2.0 mi. E. of, 0.2 mi. W. of NE. cor. sec. 16, T. 3 N., R. 2 E., 50 ft. E. of rd., at School No. 16, in NW. corner of school-yard, on N. bank of small drain, in root on S. side of 18-in. elm tree; copper nail and washer (established in 1923)	637. 76

[Continued in Chanderville quadrangle, line 3]

3. From Beardstown generally west along State Highway 103 about 4 miles (by F. L. Shalibo in 1923)

Beardstown, at W. corner of intersection of Main and State Streets, at main entrance of building occupied by First State Bank, ¹⁶ in stone step, 5 in. back from edge, leaded vertically; copper bolt (U. S. C. E. P. B. M. 27; recovered in 1927)	443. 234
Beardstown, at NE. corner of wagon bridge over Illinois River, on top of concrete wing wall; chiseled square	444. 16
Beardstown, 0.8 mi. NW. of, 0.3 mi. E. of S $\frac{1}{4}$ cor. sec. 30, T. 1 N., R. 1 E., on E. side of highway, 150 ft. W. of Chicago, Burlington & Quincy R. R. track, in root of large poplar tree; copper nail	431. 87

[Continued in Rushville quadrangle, line 1]

4. From point about 4 miles west and 2.1 miles north from Beardstown along roads east 0.4 mile, thence generally north and west to crossroads 2.8 miles east and 2 miles north from Rushville, thence alternately east and north to Ray, thence northeast along Chicago, Burlington & Quincy Railroad about 3.5 miles (by F. L. Shalibo in 1923)

[Continued from Rushville quadrangle, line 2]

Beardstown, 3.7 mi. W. and 2.5 mi. N. from, 3.7 mi. by direct rd. SW. of Pleasantview, near quarter corner between secs. 14 and 15, T. 1 N., R. 1 W., 100 ft. N. of T-junction of E.-W. rd., in cemetery, in root on S. side of large pine tree; copper nail	620. 44
Pleasantview, 1.3 mi. W. and 1.0 mi. S. from, 4.7 mi. SE. of Rushville, about 600 ft. E. of SW. cor. sec. 2, T. 1 N., R. 1 W., 200 ft. NW. of crossroads, at W. end of walk to farmhouse, in concrete block; standard tablet stamped "3 S 1923"	636. 907

¹⁵ In 1936 this bench mark was moved 4 ft. south of this position and reset at an elevation 0.372 ft. higher than that originally determined. The figures given represent the new elevation.

¹⁶ It was reported that the building was later occupied by a garage.

	Feet
Reference mark, 30 ft. S. of tablet, 2 ft. E. of fence, in root on S. side of large tree; copper nail-----	637. 08
[Jogs into Rushville quadrangle, line 3]	
Rushville, 2.0 mi. N. and 3.8 mi. E. from, 4.8 mi. by rd. SW. of Ray, near E $\frac{1}{4}$ cor. sec. 15, T. 2 N., R. 1 W., 240 ft. N. of E.-W. rd., 25 ft. W. of rd. N., 1 ft. W. of fence, in concrete post; aluminum tablet stamped "5 S 1923"-----	649. 917
Reference mark, 30 ft. N. of tablet, in root on S. side of large tree; copper nail-----	649. 59
Ray, 3.8 mi. SW. of, near W $\frac{1}{4}$ cor. sec. 11, T. 2 N., R. 1 W., 150 ft. N. of small creek, in front of farmhouse, on N. edge of driveway, in root of large tree; copper nail-----	582. 95
Ray, 2.9 mi. SW. of, 0.25 mi. N. of S. cor. secs. 2 and 3, T. 2 N., R. 1 W., on N. side of rd., at right-angle turn E., in root of tree; copper nail-----	659. 62
Ray, 2.2 mi. SW. of, about 800 ft. S. of center of sec. 2, T. 2 N., R. 1 W., in NE. angle of junction of T-rd. N., 1 ft. S. of fence line, in concrete post; standard tablet stamped "6 S 1923"-----	655.428
Ray 1.2 mi. S. of 0.3 mi. NW. of SE. cor. sec. 35, T. 3 N., R. 1 W., 160 ft. N. of rd. fork, on E. side of rd., at dwelling, on concrete doorstep; chiseled square-----	643. 73
Ray, at NE. corner of brick store building, in concrete step; standard tablet stamped "7 S 1923"-----	535. 069
Reference mark, 10 ft. S. of tablet, on step; chiseled square-----	534. 46
Ray, 1.6 mi. NE. of, at NE. corner of iron bridge over Sugar Creek, on iron plate, on bolt head; chiseled cross-----	511. 08
[Connects with line 3 in Vermont quadrangle]	
5. From point 1.2 miles north and 1 mile west from Bluff City southwest and southeast along roads 1 mile (by W. A. Shumate in 1923)	
[A jog from Chandlerville quadrangle, line 4]	
Bluff City, 1.6 mi. NW. of, in SW $\frac{1}{4}$ sec. 35, T. 3 N., R. 2 E., in NW. corner of junction of E.-W. rd., on stone retaining wall; chiseled square-----	641. 95
[Continued in Chandlerville quadrangle, line 4]	
6. From point 1 mile west of Bluff City generally west and southwest by way of Sheldon's Grove and Bader to point 2.6 miles northwest of Pleasantview (by W. A. Shumate in 1923)	
[Continued from Chandlerville quadrangle, line 4]	
Bluff City, 1.0 mi. W. of, 2.8 mi. NE. of Sheldon's Grove, near center of sec. 2, T. 2 N., R. 2 E., on S. side of rd., on concrete culvert; chiseled square-----	486. 86
Sheldons Grove, 1.8 mi. NE. of, SE. of center of sec. 3, T. 2 N., R. 2 E., on S. side of rd., on N. abutment of bridge; chiseled square-----	487. 99
Sheldons Grove, 50 ft. E. of T-rd. N., on N. side of rd., 1 ft. from old store building, in concrete post; standard tablet stamped "13 S 1923"-----	463. 531
Reference mark, at store building owned by Boyd & Winter, on concrete porch; chiseled square-----	464. 09
Sheldons Grove, 1.6 mi. NW. of, about 800 ft. E. of W $\frac{1}{4}$ cor. sec. 5, T. 2 N., R. 2 E., in S. angle at bend NW. in rd. and junction of dim rd. SE., on concrete sidewalk; chiseled square-----	636. 94

	Feet
Sheldons Grove, 2.5 mi. NW. thence 0.9 mi. S. from, 2.5 mi. E. of Bader, 190 ft. S. of junction of rd. E., on W. side of rd., in root of 36-in. oak tree; copper nail and washer-----	615. 66
Bader, 1.8 mi. E. of, 0.25 mi. S. of NE. cor. sec. 12, T. 2 N., R. 1 E., 36 ft. W. of crossroads, at S. corner of iron bridge, on railing; chiseled square-----	572. 90
Bader, 0.9 mi. E. of, 0.25 mi. E. of NW. cor. sec. 12, T. 2 N., R. 1 E., 90 ft. S. of crossroads, at Crossroads School, on concrete step; chiseled square-----	624. 42
Bader, on S. side of rd., in line with rd. N., 150 ft. SW. of store building, in concrete post; standard tablet stamped "14 S 1923"-----	616. 088
Reference mark, on S. side of rd., 120 ft. W. of rd. N., in root of 24-in. maple tree; copper nail and washer-----	614. 88
Bader, 0.9 mi. W. of, near N $\frac{1}{4}$ cor. sec. 10, T. 2 N., R. 1 E., in SW. angle of junction of T-rd. S., in root of 48-in. black-oak tree; copper nail and washer-----	627. 44
Bader, 1.6 mi. W. thence 1.1 mi. SW. from, near quarter corner between secs. 9 and 16, T. 2 N., R. 1 E., in NW. angle of T-junction of E.-W. rd., on stone retaining wall of culvert; chiseled square-----	612. 71
Bader, 1.6 mi. W. thence 2.0 mi. SW. from, 2.0 mi. N. thence 4.3 mi. NE. from Pleasantview, 2.7 mi. by rd. NW. of Browning, in SW $\frac{1}{4}$ sec. 16, T. 2 N., R. 1 E., SW. of rd. junction, 3 ft. NW. of tree, 1 ft. from fence, in concrete post; standard tablet stamped "15 S 1923" (recovered in 1936)-----	663. 316
Reference mark, 540 ft. W. of rd. junction, on NE. side of rd., in root of 15-in. locust tree; copper nail and washer-----	681. 89
Pleasantview, 2.0 mi. N. thence 3.2 mi. NE. from, near center of NE $\frac{1}{4}$ sec. 20, T. 2 N., R. 1 E., on W. side of rd. at turn W., in root of 20-in. white-oak tree; copper nail and washer-----	635. 60
Pleasantview, 2.0 mi. N. thence 1.0 mi. NE. from, 0.3 mi. S. of Onion School, about 600 ft. S. of W $\frac{1}{4}$ cor. sec. 19, T. 2 N., R. 1 E., 80 ft. S. of T-junction of N.-S. rd., on E. side of rd., in concrete post; standard tablet stamped "16 S 1923"-----	663. 183
Reference mark, in SE. angle of rd. junction, in root of 36-in. elm tree; copper nail and washer-----	663. 18
Pleasantview, 1.9 mi. N. of, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 25, T. 2 N., R. 1 W., on W. side of rd., in front yard of residence of J. W. Dailey, in root of 36-in. tree; copper nail and washer-----	667. 43
Pleasantview, 1.0 mi. N. of, near N $\frac{1}{4}$ cor. sec. 36, T. 2 N., R. 1 W., in SW. angle of junction of T-rd. W., in root of 36-in. chestnut tree; copper nail and washer-----	682. 26
Pleasantview, 1.2 mi. NW. of, 0.3 mi. W. of SE. cor. sec. 26, T. 2 N., R. 1 W., 300 ft. N. of junction of NW.-SE. rd., on S. end of culvert; chiseled square-----	729. 89
[Connects with line 3 in Rushville quadrangle]	
7. From Beardstown along roads generally east and north to point 2.3 miles south and 1 mile west from Snicarte (by W. A. Shumate in 1923)	
Beardstown, at SE. corner of intersection of East Main and Walnut Streets, on concrete curb; chiseled square-----	450. 46
Beardstown, 3.9 mi. NE. of, in NW $\frac{1}{4}$ sec. 6, T. 18 N., R. 11 W., on N. side of rd., 700 ft. W. of T-rd. N., in root of 18-in. elm tree; copper nail and washer-----	444. 60

	Feet
Beardstown, 4.1 mi. NE. of, in NW $\frac{1}{4}$ sec. 6, T. 18 N., R. 11 W., 60 ft. N. of rd., on E. side of T-rd. N., 2 ft. W. of hedge fence, in concrete post; standard tablet stamped "17 S 1923"-----	443. 927
Beardstown, 4.8 mi. NE. of, near center of E. side NE $\frac{1}{4}$ sec. 6, T. 18 N., R. 11 W., 70 ft. W. of junction of T-rd. S., on N. side of rd., on concrete sidewalk; chiseled square-----	443. 96
Beardstown, 5.9 mi. NE. of, near center of W. side NW $\frac{1}{4}$ sec. 4, T. 18 N., R. 11 W., 100 ft. N. of rd., almost in line with rd. SE., in root of 60-in. maple tree; copper nail and washer-----	442. 77
Beardstown, 6.6 mi. NE. of, near N $\frac{1}{4}$ cor. sec. 4, T. 18 N., R. 11 W., in SW. angle of junction of T-rd. S., at Limbo School, in concrete porch; standard tablet stamped "18 S 1923"-----	445. 253
Reference mark, in NW. angle of junction of T-rd. N., in root of 60-in. locust tree; copper nail and washer-----	442. 95
Beardstown, 7.8 mi. NE. of, 0.4 mi. SW. of crossing of Little Sangamon River, 0.2 mi. S. of NE. cor. sec. 33, T. 19 N., R. 11 W., on SE. side of rd., 100 ft. W. of Wilson residence, in root of 18-in. locust tree; copper nail and washer-----	443. 04
Beardstown, 9.5 mi. NE. of, in NE $\frac{1}{4}$ sec. 27, T. 19 N., R. 11 W., at angle NE. in old woods rd., 20 ft. N. of fence post, in root on E. side of 60-in. burr-oak tree; copper nail and washer-----	435. 48
Beardstown, 10.4 mi. NE. of, 0.3 mi. W. of Cass-Mason county line, in SW $\frac{1}{4}$ sec. 23, T. 19 N., R. 11 W., 50 ft. W. of bend in old woods rd., 20 ft. E. of old house, in root on W. side of 18-in. maple tree; copper nail and washer-----	440. 85
Beardstown, 11.2 mi. NE. of, near S $\frac{1}{4}$ cor. sec. 14, T. 19 N., R. 11 W., at Pickler Clubhouse, on concrete sidewalk; chiseled square-----	450. 30
Beardstown, 12.7 mi. NE. of, 2.3 mi. S. and 2.2 mi. W. from Snicarte, near SW. cor. sec. 13, T. 19 N., R. 11 W., on N. side of rd., in line with rd. S., 100 ft. N. of T-rd. E., 3 ft. from fence post, in concrete post; standard tablet stamped "19 S 1923"-----	452. 814
Snicarte, 2.3 mi. S. and 1.4 mi. W. from, near SE. cor. sec. 18, T. 19 N., R. 10 W., 110 ft. W. of junction of T-rd. S., on N. side of rd., in root of 12-in. black-oak tree; copper nail and washer-----	457. 10

[Continued in Chandlerville quadrangle, line 5]

8. From point 2.5 miles southeast of Beardstown northwest along U. S. Highway 67 to Beardstown (by C. E. Walker in 1927; leveled twice)

[Continued from Arenzville quadrangle, line 5]

Beardstown, 2.4 mi. SW. of, near center of NW $\frac{1}{4}$ sec. 24, T. 18 N., R. 12 W., in front of Wellingcamp service sta., in line with rd. S., on N. edge of highway; chiseled square-----	451. 70
Beardstown, at SE. edge of, at abrupt turn in rd. at city limits, 100 ft. SE. of service sta., on N. side of tourist camp, in root on N. side of 30-in. elm tree; copper nail and washer-----	445. 19
9. From point 1.6 miles west thence 2 miles southwest from Bader along road northeast 0.7 mile, thence generally west about 1.1 miles (by W. C. Elledge in 1936; leveled twice)	639. 12

Bader, 1.6 mi. W. thence 1.5 mi. SW. from, in N $\frac{1}{2}$ sec. 16, T. 20 N., R. 1 E., 0.25 mi. S. of rd. junction, 150 ft. N. of white house on W. side of rd., on E. side of rd., at head of draw, on E. head wall of concrete culvert; chiseled square-----	558. 726
---	----------

BOWLING GREEN QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $91^{\circ}00'$ – $91^{\circ}15'$]

PIKE COUNTY

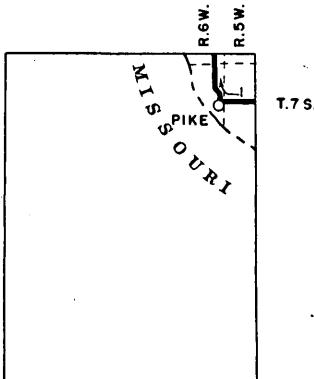


FIGURE 94.—Lines of leveling in Bowling Green quadrangle.

1. From point near quarter corner between secs. 8 and 17, T. 7 S., R. 5 W., west along road to point near Pike, thence north to point near center of sec. 36, T. 6 S., R. 6 W. (by S. R. Archer in 1926; relevelled from Pike by J. M. Lawson in same year)

[Continued from Nebo quadrangle, line 2]

Pike, 1.9 mi. E. of, 0.6 mi. W. of Sny Church, just E. of quarter corner between secs. 8 and 17, T. 7 S., R. 5 W., at bridge over Sand Slough, at S. end of W. concrete abutment, at junction of wing wall and bridge seat; chiseled square-----

Pike, 1.1 mi. E. of, 0.25 mi. W. of SE. cor. sec. 7, T. 7 S., R. 5 W., on N. side of rd., in SW. corner of yard of dwelling, at westernmost of four maple trees, in root on SW. side of 24-in. tree; copper nail and washer-----

Pike, 0.3 mi. NE. of, near cor. secs. 7, 12, 13 and 18, T. 7 S., Rs. 5 and 6 W., 135 ft. NE. of junction of U. S. Highway 54 and rd. E., on NW. side of highway, at fence, in root on SE. side of 10-in. pecan tree; copper nail and washer-----

Pike, 0.15 mi. E. of crossing of C. B. & Q. R. R. and U. S. Highway 54, in NE $\frac{1}{4}$ of fractional sec. 18, T. 7 S., R. 6 W., 20 ft. NW. thence 30 ft. NE. from junction of rd. NW., in corner of field, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 163 F 1925"¹⁷-----

Pike, 0.6 mi. N. of, 0.15 mi. N. of center of SE $\frac{1}{4}$ sec. 12, T. 7 S., R. 6 W., 0.4 mi. NE. of Sny levee, on NE. side of dry pond, 755 ft. NW. along rd. from crossing of C. B. & Q. R. R., 700 ft. SE. of dwelling, on NE. side of rd.; Mississippi River Comm. B. M. 86/1 top of iron pipe-----
copper bolt in tile at bottom of pipe-----

Feet
447.07

447.09

449.28

451.193

452.630
448.610

¹⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "H 80 1935," elevation 462.742 ft.

	Feet
Pike, 0.9 mi. N. of, 0.12 mi. N. of center of sec. 12, T. 7 S., R. 6 W., opposite SE. corner of yard of Riverside School, 20 ft. N. of angle in rd. and junction of private rd. NW., on E. side of rd., in root on E. side of 36-in. oak tree; copper nail and washer-----	449.93
Pike, 1.9 mi. N. of, 0.2 mi. N. of center of sec. 1, T. 7 S., R. 6 W., near SW. corner of yard of dwelling on E. side of rd., in NW. corner of cultivated field, in root on NW. side of 10-in. elm tree; copper nail and washer-----	449.21
Pike, 2.7 mi. N. of, 2.0 mi. SW. thence 1.6 mi. S. from Rockport, 1.5 mi. W. of Moores, near center of sec. 36, T. 6 S., R. 6 W., 35 ft. S. and 27 ft. E. from crossroads, 10 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "5 A 1926"-----	450.955
Reference mark, 50 ft. S. of tablet, 80 ft. S. of E.-W. rd., on E. side of N.-S. rd., in field, in root on E. side of 30-in. maple tree; copper nail and washer-----	450.38

[Continued in Barry quadrangle, line 8]

BURLINGTON QUADRANGLE

[Latitude $40^{\circ}45'$ - $41^{\circ}00'$; longitude $91^{\circ}00'$ - $91^{\circ}15'$]

HENDERSON COUNTY

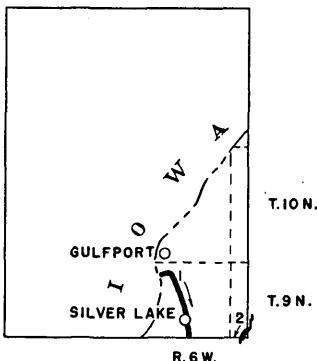


FIGURE 95.—Lines of leveling in Burlington quadrangle.

1. From point on railroad bridge over Mississippi River opposite Burlington, Iowa, southeast along Chicago, Burlington & Quincy Railroad to point 0.6 mile north of Carman (by S. R. Archer in 1910)

[Continued from Iowa]

Carthage Lake, 1.0 mi. NW. of sta. at, 1.3 mi. NE. of Burlington, Iowa, at NE. abutment of C. B. & Q. R. R. bridge over Mississippi River, on NW. wing wall; chiseled square.

Feet
542.40

Carthage Lake, 2.4 mi. SE. of, 1.1 mi. N. of Carman, 45 ft. E. of track, at angle in rd. from SE. to W., on S. side of rd, at intersection of right-of-way line and rd. fence; standard iron post with bronze cap stamped "530".

529.351

[Continued in Lomax quadrangle, line 1]

2. South and southwest along road in sec. 19, T. 9 N., R. 5 W. (by S. R. Archer in 1931)

[Continued from Oquawka quadrangle, line 5]

Hopper, 3.0 mi. SW. of, 0.6 mi. N. and 3.0 mi. E. from Carman, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 29, T. 9 N., R. 5 W., 110 ft. N. and 50 ft. E. from rd. junction, in root 2.5 ft. from base of 30-in. locust tree; copper nail and washer.

582.42

[Connects with line 3 in Lomax quadrangle]

CAMP GROVE QUADRANGLE

[Latitude 41°00'-41°15'; longitude 89°30'-89°45']

BUREAU, MARSHALL, AND STARK COUNTIES

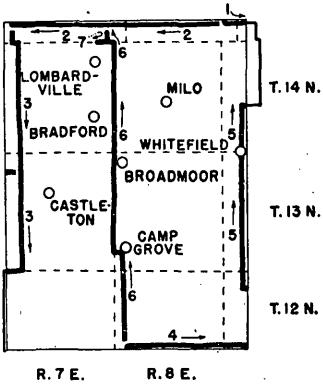


FIGURE 96.—Lines of leveling in Camp Grove quadrangle.

1. From point 3.2 miles southwest of Tiskilwa south 0.1 mile to crossroads, thence east 1.3 miles to point about 3 miles south of Tiskilwa (by E. O. Brooks in 1921)

[Continued from Buda quadrangle, line 2]

Tiskilwa, 3.3 mi. SW. of, 0.25 mi. E. of SW. cor. sec. 25, T. 15 N., R. 8 E., 155 ft. N. of crossroads, on N. end of E. concrete wing wall of bridge; chiseled square-----

Feet
727.42

Tiskilwa, 3.3 mi. SW. thence 1.0 mi. E. from, 0.28 mi. E. of NW. cor. sec. 31, T. 15 N., R. 9 E., on top of E. end of S. concrete retaining wall of culvert over drain; chiseled square-----

655.04

[Connects with line 1 in Lacon quadrangle]

2. From crossroads 3.3 miles southwest of Tiskilwa west along roads to point near southeast corner sec. 25, T. 15 N., R. 6 E. (by E. O. Brooks in 1921; leveled by H. S. Senseney in 1927)

Tiskilwa, 3.3 mi. SW. of, 0.25 mi. E. of SW. cor. sec. 25, T. 15 N., R. 8 E., 155 ft. N. of crossroads, on N. end of W. retaining wall of concrete bridge; chiseled square-----

727.28

T. 15 N., R. 8 E., 0.25 mi. W. of SE. cor. sec. 26, at junction of T-rd. S., in N. fence line of E.-W.rd., in root of 24-in. hickory tree; copper nail and washer-----

757.55

T. 15 N., R. 8 E., 0.25 mi. W. of SE. cor. sec. 27, in NW. angle of junction of T-rd. N., 20 ft. W. of fence corner, in fence line; top of cap on 1½-in. iron pipe-----

897.50

530 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Dorr Hill School, near SW. cor. sec. 27, T. 15 N., R. 8 E., 65 ft. NE. of junction of rd. N., 5 ft. N. of fence line bearing E., 20 ft. E. of fence line bearing N., in SW. corner of schoolyard; standard iron post with bronze cap stamped "11 EB 1921 946"	945. 826
Reference mark, in SW. corner of schoolyard, in root of 24-in. maple tree; copper nail and washer	945. 49
T. 15 N., R. 8 E., near NE. cor. sec. 32, in SW. angle of crossroads, 6 ft. W. of fence line bearing S., 5 ft. S. of fence line bearing W., in root of 24-in. boxelder tree; copper nail and washer	881. 50
T. 15 N., R. 8 E., near SW. cor. sec. 29, in NE. angle of crossroads, 15 ft. S. and 5 ft. E. from fence corner, on N. end of 16-in. concrete tile culvert; chiseled square	808. 23
T. 15 N., R. 8 E., near SW. cor. sec. 30, 2.0 mi. N. and 1.7 mi. E. from Lombardville, on N. side of rd., 10 ft. S. of fence, on W. end of 10-in. concrete tile culvert in ditch; chiseled square	778. 52
Lombardville, 2.0 mi. N. and 0.7 mi. E. from, 44 ft. SW. of NE. cor. sec. 35, T. 15 N., R. 7 E., in SW. angle of crossroads, 5 ft. NW. of fence corner, 4 ft. N. of fence line bearing W.; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1919" and "12 EB 1921 765" (recovered in 1936)	764. 289
Reference mark, 20 ft. E. of iron post, 15 ft. E. of fence corner, on N. end of W. retaining wall of culvert; chiseled square	765. 16
Lombardville, 2.0 mi. N. and 0.5 mi. W. from, near NE. cor. sec. 34, T. 15 N., R. 7 E., in SW. angle of crossroads, at fence corner, in root of 24-in. maple tree; copper nail and washer	771. 49
T. 15 N., R. 7 E., near NW. cor. sec. 34, in SE. angle of crossroads, 12 ft. E. of fence corner, in fence line bearing E.; top of cap on 1½-in. iron pipe	769. 28
T. 15 N., R. 7 E., near SW. cor. sec. 28, in NE. angle of crossroads, 15 ft. N. of fence corner, in fence line bearing N.; standard iron post with bronze cap stamped "13 EB 1921 776"	775. 807
Reference mark, 40 ft. SE. of iron post, 40 ft. E. of crossroads, on W. end of N. head wall of concrete culvert; chiseled square	771. 32
T. 15 N., R. 7 E., near SW. cor. sec. 29, in NE. angle of junction of T-rd. N., at fence corner, 7 ft. W. of tree, in root of 42-in. maple tree; copper nail and washer	776. 06
T. 15 N., R. 6 E., near SE. cor. sec. 25, at junction of T-rd. E., on W. side of N.-S. rd., 30 ft. N. of E. end of hedge fence bearing W., 2 ft. E. of N.-S. fence; top of 1½-in. iron pipe	777. 30

[Continued in Annawan quadrangle, line 1] ¹⁸

3. From point near southeast corner sec. 25, T. 15 N., R. 6 E., generally south along roads to road junction at south corner secs. 31 and 32, T. 13 N., R. 7 E., thence west to point 1.2 miles east of Wyoming (by H. S. Senseney in 1927)

[Connects with line 1 in Annawan quadrangle]

T. 15 N., R. 6 E., at E½ cor. sec. 36, in center of junction of T-rd. W., on stone marking quarter corner; chiseled square	764. 27
T. 14 N., R. 7 E., 21 ft. N. of N. cor. secs. 5 and 6, on N. side of Bureau-Stark county-line rd., in line with T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 41 T 1924"	758. 621

¹⁸ This line crosses the southwest corner of Buda quadrangle but no bench marks were established in that portion of the line.

	Feet
T. 14 N., R. 7 E., near NE. cor. sec. 7, in SW. angle of crossroads, in root of tree; copper nail and washer-----	756. 53
T. 14 N., R. 7 E., near W. cor. secs. 8 and 17, on E. side of rd., at junction of T-rd. W., 2.5 ft. N. of S: end of signboard; top of cap on 1-in. iron pipe-----	762. 34
T. 14 N., R. 7 E., near W $\frac{1}{4}$ cor. sec. 17, in SE. angle of crossroads, 18 ft. S. of mail boxes; top of cap on 1-in. iron pipe (reported destroyed) -----	774. 77
T. 14 N., R. 7 E., 0.25 mi. N. of SW. cor. sec. 20, 0.4 mi. N. and 4.0 mi. W. from Bradford, 23 ft. S. and 21 ft. E. from crossroads, in NW. corner of field, in concrete post; standard tablet stamped "Prim Trav Sta No 40 T 1924" ¹⁰ -----	750. 078
Reference mark, 0.25 mi. S. of tablet, 31 ft. S. and 53 ft. W. from NE. cor. sec. 30, in root of tree; copper nail and washer-----	746. 46
T. 14 N., R. 7 E., near E $\frac{1}{4}$ cor. sec. 31, 190 ft. S. of junction of T-rd. E., on W. side of rd., in root of tree; copper nail and washer-----	701. 50
T. 14 N., R. 7 E., near SE. cor. sec. 31, at SW. corner of bridge, on steel pier; bolt-----	690. 82
T. 13 N., R. 7 E., near SE. cor. sec. 6, 1.5 mi. E. of Modena, at Franklin School, 33 ft. N. and 26 ft. W. from crossroads, in SE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 39 T 1924"-----	742. 841
Reference mark, 28 ft. N. of tablet, in root of tree; copper nail and washer-----	742. 20
T. 13 N., R. 7 E., near E $\frac{1}{4}$ cor. sec. 7, on W. side of rd., at junction of T-rd. E., 4 ft. S. of fence corner; top of cap on 1-in. iron pipe-----	743. 08
T. 13 N., R. 7 E., near W $\frac{1}{4}$ cor. sec. 17, 0.4 mi. S. and 1.5 mi. W. from Castleton, in SE. angle of crossroads, in root of tree; copper nail and washer-----	727. 70
T. 13 N., R. 7 E., near E $\frac{1}{4}$ cor. sec. 29, 30 ft. N. and 20 ft. E. from junction of T-rd. E., in corner of field, in concrete post; standard tablet stamped "Prim Trav Sta No 38 T 1924"-----	749. 622
Reference mark, 0.25 mi. S. of tablet, in NW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----	735. 49
T. 13 N., R. 7 E., near SW. cor. sec. 29, 2.0 mi. E. thence 1.0 mi. N. from Wyoming, at Jefferson School, in NE. angle of crossroads, in front of schoolhouse, in root of tree; copper nail and washer-----	718. 01
Wyoming, 2.0 mi. E. of, near SW. cor. sec. 32, T. 13 N., R. 7 E., in NE. angle of junction of T-rd. N., in root of tree; copper nail and washer-----	709. 03

[Continued in Toulon quadrangle, line 4]

4. From State Highway 88 at point 0.8 mile north and 1.1 miles east from Speer north along highway 0.2 mile to crossroads, thence east along road to point near southwest corner sec. 20, T. 12 N., R. 9 E. (by H. S. Senseney in 1927)

[Continued from Dunlap quadrangle, line 2]

Speer, 1.1 mi. E. thence 1.0 mi. N. from, 5.0 mi. S. of Camp Grove, 24 ft. N. and 44 ft. E. from S $\frac{1}{4}$ cor. sec. 19, T. 12 N., R. 8 E., in corner of field, 4 ft. E. of gatepost, in concrete post; standard tablet stamped "Prim Trav Sta No 33 T 1924"-----

783. 670

¹⁰ In 1932 this bench mark was moved 43 ft. S. of this location and reset at an elevation 1,960 ft. higher than that originally determined. The figures given represent the new elevation.

	Feet
Reference mark, 110 ft. SW. of tablet, in root of apple tree; copper nail and washer-----	783. 75
T. 12 N., R. 8 E., near S $\frac{1}{4}$ cor. sec. 21, 1.0 mi. S. of La Prairie Center, in NW. angle of crossroads, on culvert; chiseled square-----	761. 89
T. 12 N., R. 8 E., near SW. cor. sec. 23, 25 ft. N. and 32 ft. E. from crossroads, in corner of pasture, in concrete post; standard tablet stamped "Prim Trav Sta No 32 T 1924"-----	706. 428
Reference mark, 60 ft. N. of tablet, on SE. corner of culvert; chiseled square-----	707. 15
T. 12 N., R. 8 E., near SW. cor. sec. 24, in NE. angle of crossroads, in root of tree; copper nail and washer-----	707. 76
T. 12 N., R. 8 E., near S $\frac{1}{4}$ cor. sec. 24, in NW. angle of crossroads, in root of tree; copper nail and washer-----	686. 62
T. 12 N., R. 9 E., 0.18 mi. E. of SW. cor. sec. 20, at bridge over Senachwine Creek, on S. end of E. abutment; chiseled square-----	606. 93

[Continued in Lacon quadrangle, line 2]

5. From point 1.2 miles north and 3.1 miles west from Sparland north along road to point 2.5 miles north of Whitefield (by H. S. Seneney in 1927)

[Continued from Lacon quadrangle, line 2]

Sparland, 1.2 mi. N. and 3.4 mi. W. from, at Drake School, 20 ft. S. and 280 ft. E. from NW. cor. sec. 8, T. 12 N., R. 9 E., in NW. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 30 T 1924"-----	729. 945
Reference mark, 65 ft. W. of tablet, on W. end of culvert, chiseled square-----	729. 79
Drake school, 1.0 mi. N. of, near NE. cor. sec. 6, T. 12 N., R. 9 E., in SW. angle of crossroads, on culvert; chiseled square-----	723. 88
Drake School, 2.0 mi. N. of, near NW. cor. sec. 32, T. 13 N., R. 9 E., in SE. angle of crossroads, on culvert; chiseled square-----	716. 96
Drake School, 3.0 mi. N. of, 4.0 mi. S. of Whitefield, near SW. cor. sec. 20, T. 13 N., R. 9 E., 34 ft. N. and 28 ft. E. from crossroads, in corner of orchard, in concrete post; standard tablet stamped "Prim Trav Sta No 29 T 1924"-----	708. 327
Reference mark, 9 ft. SW. of tablet, on culvert; chiseled square-----	707. 28
Whitefield, 2.5 mi. S. of, near E $\frac{1}{4}$ cor. sec. 18, T. 13 N., R. 9 E., in NW. angle of crossroads, on culvert; chiseled square-----	692. 12
Whitefield, 1.5 mi. S. of, near E $\frac{1}{4}$ cor. sec. 7, T. 13 N., R. 9 E., in NW. angle of crossroads, in root of tree; copper nail and washer (recovered in 1929)-----	711. 36
Whitefield, 46 ft. N. and 29 ft. W. from S. cor. secs. 31 and 32, T. 14 N., R. 9 E., in NW. angle of offset crossroads (E.-W. rd. on Bureau-Marshall county line), 2 ft. N. and 2 ft. E. from SE. corner of store of Deisher and Bell, in concrete post; standard tablet stamped "Prim Trav Sta No 28 T 1924"-----	709. 274
Reference mark, 140 ft. NE. of tablet, on NW. corner of concrete walk in front of I. O. O. F. hall; chiseled square-----	707. 48
Whitefield, 1.0 mi. N. of, near cor. secs. 29, 30, 31, and 32, T. 14 N., R. 9 E., at NE. corner of bridge over Crow Creek, on end of wing wall; chiseled square-----	626. 22

Whitefield, 2.5 mi. N. of, 1.0 mi. W. of Lone Tree Corners, near quarter corner between secs. 19 and 20, T. 14 N., R. 9 E., on N. side of rd., at junction of T-rd. S., in root of tree; copper nail and washer.

Feet
693.73

[Continued in Lacon quadrangle, line 3]

6. From crossroads 5 miles south of Camp Grove north along State Highway 88 and county-line road to north corner secs. 1 and 6, T. 14 N., Rs. 7 and 8 E., thence west and north to crossroads 2 miles north and 0.7 mile east from Lombardville (by H. S. Senseney in 1927)

Camp Grove, 4.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 18, T. 12 N., R. 8 E., in NE. angle of crossroads, 9 ft. N. of fence corner; top of cap on 1-in. iron pipe.

793.65

Camp Grove, 3.0 mi. S. of, near N $\frac{1}{4}$ cor. sec. 18, T. 12 N., R. 8 E., in SW. angle of crossroads, on culvert; chiseled square.

755.40

Camp Grove, 2.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 6, T. 12 N., R. 8 E., 80 ft. E. of crossroads, on N. side of rd., in concrete post; standard tablet stamped "9 S 1927".

769.309

Reference mark, 175 ft. NW. of tablet, in root of hedge tree; copper nail and washer.

762.04

Camp Grove, 1.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 31, T. 13 N., R. 8 E., 180 ft. N. of crossroads, on E. side of rd., on culvert; chiseled square.

790.90

Camp Grove, in SE. part of, 115 ft. E. of junction of T-rd. S., on NW. corner of concrete walk to schoolhouse; chiseled square.

850.46

Camp Grove, 0.5 mi. W. of, near NW. cor. sec. 31, T. 13 N., R. 8 E., at Stark-Marshall county line, on S. side of rd., at junction of county line rd. N., on culvert; chiseled square.

812.84

Camp Grove, 0.5 mi. W. thence 1.0 mi. N. of, near SW. cor. sec. 19, T. 13 N., R. 8 E., 90 ft. E. of crossroads, on N. side of rd., in concrete post; standard tablet stamped "10 S 1927".

837.677

Reference mark, 80 ft. SW. of tablet, in root of tree; copper nail and washer.

837.46

Camp Grove, 0.5 mi. W. thence 3.5 mi. N. of, 1.2 mi. S. and 0.4 mi. W. from Broadmoor, near W $\frac{1}{4}$ cor. sec. 7, T. 13 N., R. 8 E., 90 ft. E. of crossroads, on N. side of rd., in concrete post; standard tablet stamped "11 S 1927".

784.545

Reference mark, 130 ft. SW. of tablet, in SW. angle of crossroads, on culvert; chiseled square.

782.34

Broadmoor, 0.2 mi. S. thence 0.4 mi. W. from, near E $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 7 E., in NW. angle of crossroads, 14 ft. N. of corner fence post; top of cap on 1-in. iron pipe.

774.14

Broadmoor, 0.3 mi. N. thence 0.4 mi. W. from, 325 ft. N. of corner of Bureau, Marshall, and Stark Counties, near SE. cor. sec. 36, T. 14 N., R. 7 E., on W. side of rd., in root of tree; copper nail and washer.

779.33

Broadmoor, 1.3 mi. N. and 0.4 mi. W. from, 1.0 mi. S. and 1.0 mi. E. from Bradford, near NE. cor. sec. 36, T. 14 N., R. 7 E., in SW. angle of crossroads, on concrete drain pipe; chiseled square.

819.05

Bradford, 1.0 mi. E. of, near NW. cor. sec. 30, T. 14 N., R. 8 E., 90 ft. E. of crossroads, on S. side of rd., in concrete post; standard tablet stamped "12 S 1927".

810.375

Reference mark, 300 ft. N. of tablet, at N. abutment of bridge, on N. end of E. wing wall; chiseled square.

803.94

534 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Bradford, 1.0 mi. E. thence 1.0 mi. N. from, near SE. cor. sec. 13, T. 14 N., R. 7 E., on W. side of rd., at dwelling of Ed. Finnegan, on SE. corner of concrete walk; chiseled square-----	774.70
Bradford, 1.0 mi. E. thence 2.3 mi. N. from, 1.0 mi. E. thence 0.7 mi. S. from Lombardville, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 12, T. 14 N., R. 7 E., 350 ft. S. of Chicago & North Western Ry. crossing, on W. side of rd., in root of tree; copper nail and washer-----	768.81
Lombardville, 1.0 mi. E. of, near NE. cor. sec. 12, T. 14 N., R. 7 E., 85 ft. W. of crossroads, on S. side of rd., in concrete post; standard tablet stamped "13 S 1927"-----	762.211
Reference mark, 120 ft. NE. of tablet, in NE. angle of crossroads, in root of tree; copper nail and washer-----	760.02
Lombardville, 1.0 mi. E. thence 1.0 mi. N. from, near NE. corner of Stark County, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 36, T. 15 N., R. 7 E., on N. side of rd., opposite junction of T-rd. S. on line between secs. 1 and 6, T. 14 N., Rs. 7 and 8 E., in root of tree; copper nail and washer-----	766.27
7. From point 2 miles north and 0.7 mile east from Lombardville along roads south 1 mile, thence west 0.7 mile to crossing of Chicago, Burlington & Quincy Railroad 0.9 mile north of Lombardville (by W. C. Elledge in 1936)	
Lombardville, 1.2 mi. N. and 0.7 mi. E. from, 0.25 mi. N. of SE. cor. sec. 35, T. 15 N., R. 7 E., 300 ft. S. of house on W. side of rd., on W. head wall of concrete culvert; chiseled square-----	757.84
U. S. C. & G. S. standard disk stamped "F 45 1934"-----	749.602

CAMP POINT QUADRANGLE

[Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $91^{\circ}00' - 91^{\circ}15'$]

ADAMS AND HANCOCK COUNTIES

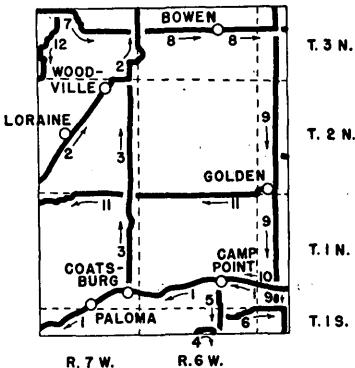


FIGURE 97.—Lines of leveling in Camp Point quadrangle.

1. From point 2.4 miles west of Clayton west along Wabash Railway to Camp Point, thence southwest along Chicago, Burlington & Quincy Railroad to point 0.5 mile east of Fowler (by R. G. Clinite in 1914)

[Continued from Augusta quadrangle, line 1]

Clayton, 4.0 mi. W. of sta., 1.7 mi. SE. of Wabash Ry. sta. at Camp Point, 150 ft. N. of junction of U. S. Highway 24 and State Highway 102, in NE. angle of highway crossing, 20 ft. N. of R. R. right-of-way, 2 ft. W. of fence; standard iron post with bronze cap stamped "736" (recovered in 1936; also recovered by U. S. C. & G. S. in 1933)

Feet
735. 176

Camp Point, 100 ft. S. of C. B. & Q. R. R. sta., almost opposite freight room door, 160 ft. E. of water tank, in root on N. side of 18-in maple tree; copper nail and washer

734. 57

Camp Point, 1.1 mi. W. of C. B. & Q. R. R. sta., 4.0 mi. E. of Coatsburg, 180 ft. N. of rd. crossing, 10 ft. S. and 20 ft. E. from junction of N.-S. rd. and T-rd. W.; standard iron post with bronze cap stamped "728" (recovered by U. S. C. & G. S. in 1933)

727. 230

Coatsburg, 500 ft. E. of sta., 2.4 mi. NE. of Paloma, 100 ft. N. of track, on E. side of N.-S. rd.; standard iron post with bronze cap stamped "761" (recovered by U. S. C. & G. S. in 1933)

760. 622

Paloma, 0.2 mi. SW. of sta., 300 ft. N. of track, in SW. angle of junction of base-line rd. and T-rd. S., 36 ft. S. of base line, 3 ft. S. of corner of hedge fence; standard iron post with bronze cap stamped "743" (recovered by U. S. C. & G. S. in 1933)

742. 161

[Continued in Mendon quadrangle, line 1]

2. From point 2.7 miles northeast of Mendon northeast along Chicago, Burlington & Quincy Railroad to Woodville, thence along roads alternately east and north to point 2 miles east and 0.8 mile south from West Point (by W. A. Shumate in 1921)

[Continued from Mendon quadrangle, line 3]

	Feet
Lorraine, 200 ft. W. of sta., on sidewalk; chiseled square-----	646. 53
Lorraine, at E. side of schoolhouse, 0.8 ft. above ground, in stone foundation; aluminum tablet stamped "1921 647"-----	646. 167
Lorraine, 0.7 mi. NE. of sta., about 2 mi. SE. of Woodville, on SE. side of track, 20 ft. S. and 60 ft. W. from rd. junction, in root of 20-in. hard-maple tree; copper nail and washer-----	646. 43
Woodville, 0.5 mi. N. and 0.5 mi. E. from sta., near S $\frac{1}{4}$ cor. sec. 35, T. 3 N., R. 7 W., 100 ft. N. of Adams-Hancock county-line rd., on E. side of Woodville School, in stone foundation, 1.3 ft. above ground; aluminum tablet stamped "1921 652"-----	651. 290
Woodville, 0.5 mi. N. and 1.5 mi. E. from, 1.5 mi. S. and 0.8 mi. W. from Chili, near S $\frac{1}{4}$ cor. sec. 36, T. 3 N., R. 7 W., in NE. angle of crossroads, on concrete culvert; chiseled square-----	680. 18
Chili, 0.2 mi. W. of, 2.3 mi. E. of Stillwell, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 30, T. 3 N., R. 6 W., in NW. angle of crossroads, 2 ft. S. of fence, in concrete post; standard tablet stamped "1921 686" (recovered in 1932)-----	684. 793
Chili, 2.0 mi. N. of, near W $\frac{1}{4}$ cor. sec. 18, on E. side of N-S. rd., at NW. corner of yard, in root of 48-in. maple tree; copper nail and washer-----	681. 15

[Continued in Carthage quadrangle, line 2]

3. From Coatsburg north along road to crossroads 1.5 miles south and 0.8 mile west from Chili (by W. A. Shumate in 1921)

Coatsburg, 1.0 mi. N. of, 0.15 mi. N. of center of sec. 25, T. 1 N., R. 7 W., at E. end of concrete culvert, on top near center of retaining wall; chiseled square-----	715. 47
Coatsburg, 1.9 mi. N. of, near center of sec. 24, T. 1 N., R. 7 W., in NE. angle of crossroads, on concrete base of fence post; chiseled square-----	676. 53
Coatsburg, 2.5 mi. N. of, near quarter corner between secs. 13 and 24, T. 1 N., R. 7 W., at Brushey School, 780 ft. N. of junction of T-rd. E., on W. side of N-S. rd, 6 in. E. of schoolhouse, in concrete platform; aluminum tablet stamped "1921 671"-----	670. 375
Reference mark, on concrete approach to schoolhouse; chiseled square-----	670. 55
Coatsburg, 3.4 mi. N. of, near quarter corner between secs. 12 and 13, T. 1 N., R. 7 W., on E. side of rd., opposite junction of T-rd. W., in root on E. side of 8-in. locust tree; copper nail and washer-----	657. 03
Coatsburg, 4.7 mi. N. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 1, T. 1 N., R. 7 W., 800 ft. N. of junction of dim T-rd. W., on W. side of rd., in N. concrete gatepost, 2 in. above ground; bolt-----	674. 29
Coatsburg, 5.4 mi. N. of, near S $\frac{1}{4}$ cor. sec. 36, T. 2 N., R. 7 W., in NE. angle of crossroads, 4 ft. NE. of corner fence post; standard iron post with bronze cap stamped "1921 659" and "Prim Trav Sta No 19 T 1924" (recovered in 1936)-----	658. 488
Coatsburg, 6.7 mi. N. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 25, T. 2 N., R. 7 W., on E. side of rd., in NW. corner of yard, in root on W. side of 30-in. maple tree; copper nail and washer-----	658. 12

Coatsburg, 7.5 mi. N. of, near S $\frac{1}{4}$ cor. sec. 24, T. 2 N., R. 7 W., 50 ft. W. of intersection of State Highway 61 and N.-S. rd., on N. side of highway, in root on E. side of 60-in. maple tree; copper nail and washer-----	<i>Feet</i> 674. 08
Coatsburg, 8.6 mi. N. of, 3.4 mi. E. of Loraine, near S $\frac{1}{4}$ cor. sec. 13, T. 2 N., R. 7 W., 196 ft. N. of crossroads, on E. side of rd., in S. end of concrete retaining wall; aluminum tablet stamped "1921 622"-----	621. 519
Coatsburg, 9.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 13, T. 2 N., R. 7 W., 102 ft. W. of crossroads, on S. side of E.-W. rd., in root on E. side of 48-in. apple tree; copper nail and washer-----	673. 66
Coatsburg, 10.5 mi. N. of, 2.5 mi. S. and 0.8 mi. W. from Chilli, near N $\frac{1}{4}$ cor. sec. 12, T. 2 N., R. 7 W. in SE. angle of junction of T-rd. E., in base of concrete fence post, 2 in. above ground; bolt head-----	680. 41
4. East and south along road in secs. 9 and 10, T. 1 S., R. 6 W. (by W. A. Shumate in 1921)	
[A jog from Liberty quadrangle, line 4]	
Camp Point, 2.6 mi. S. and 1.2 mi. W. from, 3.3 mi. NE. of Columbus, near center of NE $\frac{1}{4}$ sec. 9, T. 1 S., R. 6 W., on W. side of rd., in line with T-rd. E., 2.5 ft. E. of hedge fence; standard iron post with bronze cap stamped "1921 699"-----	698. 917
Camp Point, 2.6 mi. S. and 0.3 mi. W. from, in NE $\frac{1}{4}$ sec. 10, T. 1 S., R. 6 W., on W. side of N.-S. rd., at junction of rd. W., in root on N. side of 60-in. black-oak tree; 10-penny nail and washer-----	700. 99
[Continued in Liberty quadrangle, line 4]	
5. From road junction 1 mile west of Camp Point along roads east to Camp Point, thence south 3 miles to point in northeast quarter sec. 10, T. 1 S., R. 6 W. (by V. S. Seward in 1922)	
Camp Point, 30 ft. S. of Jefferson Street, 20 ft. W. of Main Street, in root of 24-in. maple tree; copper nail and washer-----	730. 99
Camp Point, 0.9 mi. S. of, on W. coping of concrete bridge, directly above stream; chiseled square-----	695. 11
6. From road junction 2 miles south of Camp Point east and northeast along roads to north quarter corner sec. 5, T. 1 S., R. 5 W., thence south 1.2 miles (by V. S. Seward in 1922)	
Camp Point, 2.0 mi. S. and 1.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 2, T. 1 S., R. 6 W., 40 ft. NW. of rd. junction, in root of 15-in. hickory tree; copper nail and washer-----	781. 39
Camp Point, 2.0 mi. E. thence 1.5 mi. S. from, near NE. cor. sec. 1, T. 1 S., R. 6 W., 30 ft. S. and 100 ft. W. from junction of T-rd. N., in root of 36-in. maple tree; copper nail and washer-----	731. 91
Camp Point, 3.0 mi. E. thence 1.5 mi. S. from, 2.7 mi. W. thence 1.0 mi. S. from Clayton, near N. cor. secs. 5 and 6, T. 1 S., R. 5 W., 30 ft. S. of junction of T-rd. N., 2 ft. N. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 16 1914 S 1922" (recovered in 1936) -----	738. 556
Clayton, 1.5 mi. S. and 2.2 mi. W. from, near center of sec. 5, T. 1 S., R. 5 W., 120 ft. NW. of junction of T-rd. W., 20 ft. SE. of SE. corner of schoolhouse, 3 ft. N. of well, on rock; chiseled square (recovered in 1936) -----	738. 66

[Continued in Liberty quadrangle, line 6]

7. From point near center of sec. 18, T. 3 N., R. 7 W., along roads alternately east and south to Chili (by S. R. Archer in 1932)

[Connects with line 4 in Mendon quadrangle]

	Feet
West Point, 0.5 mi. S. and 3.1 mi. W. from, 0.1 mi. W. of quarter corner between secs. 17 and 18, T. 3 N., R. 7 W., 0.1 mi. W. of junction of private rd. N., 120 ft. E. of private rd. S., 50 ft. S. of rd., 25 ft. S. of fence, in pasture, in root on NW. side of 24-in. oak tree; copper nail and washer-----	623. 55
West Point, 0.5 mi. S. and 2.5 mi. W. from, near center of sec. 17, T. 3 N., R. 7 W., 40 ft. N. and 35 ft. E. from junction of T-rd. S., in small private cemetery, in notch 5 in. underground cut in root on SE. side of 24-in. hickory tree; copper nail and washer (recovered in 1936)-----	644. 91
West Point, 0.5 mi. S. and 2.5 mi. W. from, near center of sec. 17, T. 3 N., R. 7 W., 40 ft. E. of junction of T-rd. S., on N. side of rd., at fence line, in root on NW. side of 15-in. oak tree; copper nail and washer-----	645. 25
West Point, 0.5 mi. S. and 2.0 mi. W. from, near quarter corner between secs. 16 and 17, T. 3 N., R. 7 W., 120 ft. NE. of junction of T-rd. S., at foot of S. corner on W. side of entrance to schoolhouse, on NW. corner of top step; chiseled square-----	649. 98
West Point, 0.5 mi. S. and 1.5 mi. W. from, 3.3 mi. NW. of Stillwell, near center of sec. 16, T. 3 N., R. 7 W., 30 ft. S. and 24 ft. W. from junction of T-rd. W., in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 4 T 1924"-----	651. 867
Stillwell, 2.4 mi. NW. of, in NE $\frac{1}{4}$ sec. 21, T. 3 N., R. 7 W., at bridge over creek, on top of SW. end of W. wing wall of S. concrete abutment; chiseled square-----	601. 52
Stillwell, 1.0 mi. N. and 1.0 mi. W. from, near quarter corner between secs. 21 and 22, T. 3 N., R. 7 W., 130 ft. NW. of junction of rd. E., on top of S. end of W. head wall of concrete culvert under rd. NW.; chiseled square-----	635. 55
Stillwell, 1.0 mi. N. of, near quarter corner between secs. 22 and 23, T. 3 N., R. 7 W., in NW. corner of crossroads, on top of W. end of N. concrete head wall of culvert under rd. W.; chiseled square-----	671. 53
Stillwell, 1.0 mi. N. and 1.0 mi. E. from, 1.0 mi. N. and 1.2 mi. W. from Chili, near quarter corner between secs. 23 and 24, T. 3 N., R. 7 W., 27 ft. S. and 37 ft. E. from crossroads, in NW. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 3 T 1924"-----	675. 364
Chili, 1.0 mi. N. and 0.2 mi. W. from, near W $\frac{1}{4}$ cor. sec. 19, T. 3 N., R. 6 W., 65 ft. E. of crossroads, on N. side of rd., inside fence, 30 ft. E. of fence corner, in root on SW. side of 24-in. maple tree; copper nail and washer-----	675. 78
8. From crossroads 1 mile north of Chili east along road and State Highway 61 to point 3 miles east of Bowen, thence north to point near northwest corner sec. 17, T. 3 N., R. 5 W. (by S. R. Archer in 1932)	
Chili, 1.0 mi. N. thence 0.8 mi. E. from, 3.0 mi. W. of Bowen, near quarter corner between secs. 19 and 20, T. 3 N., R. 6 W., 105 ft. W. of crossroads, on N. side of rd., at fence line, in root on E. side of 24-in. elm tree; copper nail and washer-----	685. 85
Bowen, 2.0 mi. W. of, near quarter corner between secs. 20 and 21, T. 3 N., R. 6 W., 29 ft. S. and 31 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 2 T 1924"-----	686. 365

	Feet
Bowen, 1.0 mi. W. of, near quarter corner between secs. 21 and 22, T. 3 N., R. 6 W., in NW. angle of crossroads, in fence corner, in root on SE. side of 40-in. maple tree; copper nail and washer-----	681. 10
Bowen, in NW. corner of intersection of streets, at entrance to Farmers State Bank, on SW. corner of concrete floor of entrance; chiseled square-----	685. 87
Bowen, on N. side of E-W. main street, at S. entrance to Commercial Hotel, on top of W. end of lower step; chiseled square and letters "B. M."-----	685. 59
Bowen, 1.0 mi. E. of, near quarter corner between secs. 23 and 24, T. 3 N., R. 6 W., 36 ft. S. and 33 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 1 T 1924"-----	691. 495
Reference mark, in NW. corner of crossroads, on top of W. concrete head wall of culvert under rd. N.; chiseled square-----	692. 45
Bowen, 2.0 mi. E. of, near E 1/4 cor. sec. 24, T. 3 N., R. 6 W., in SW. corner of crossroads, on top of E. end of S. head wall of concrete culvert under highway; chiseled square-----	687. 06
Bowen, 2.8 mi. E. of, 0.15 mi. W. of E 1/4 cor. sec. 19, T. 3 N., R. 5 W., 0.15 mi. W. of crossroads, at concrete bridge over Flour Creek, on top of S. parapet of E. abutment; chiseled square (recovered in 1936)-----	661. 77
Bowen, 3.0 mi. E. thence 1.0 mi. N. from, 3.0 mi. W. and 1.0 mi. N. from Augusta, near quarter corner between secs. 17 and 18, T. 3 N., R. 5 W., 33 ft. S. of junction of T-rd. W., on E. side of rd., at fence line, in root on NW. side of 24-in. elm tree; copper nail and washer-----	684. 06

[Continued in Carthage quadrangle, line 7]

9. From State Highway 61 at point 3 miles east of Bowen south along road by way of Golden to point 1.5 miles south and 3 miles east from Camp Point (by S. R. Archer in 1936)

Bowen, 3.0 mi. E. of, 8.4 mi. N. of Golden, near quarter corner between secs. 19 and 20, T. 3 N., R. 5 W., in NW. angle of crossroads, in SE. corner of schoolyard, in root on S. side of 24-in. boxelder tree; copper nail and washer-----	684. 44
Golden, 7.8 mi. N. of, near SE. cor. sec. 19, T. 3 N., R. 5 W., 30 ft. N. and 40 ft. W. from junction of T-rd. W., 5 ft. W. of fence corner; standard iron post with bronze cap stamped "684"-----	684. 151
Reference mark, in NW. angle of junction of T-rd. W., on top of N. end of W. head wall of concrete culvert under rd. N.; chiseled square-----	684. 65
Golden, 6.8 mi. N. of, near SE. cor. sec. 30, T. 3 N., R. 5 W., 90 ft. W. of junction of T-rd. W., on top of E. end of N. head wall of concrete culvert under rd. W.; chiseled square-----	670. 32
Golden, 5.7 mi. N. of, 0.12 mi. S. of N. cor. secs. 5 and 6, T. 2 N., R. 5 W., 620 ft. S. of offset crossroads, on top of N. end of W. head wall of concrete culvert under N-S. rd.; chiseled square-----	670. 45
Golden, 4.8 mi. N. of, near NE. cor. sec. 7, T. 2 N., R. 5 W., 35 ft. S. and 30 ft. W. from crossroads, 4.5 ft. S. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "693"-----	693. 180
Reference mark, 105 ft. N. of crossroads, on W. side of rd. N., at S. side of concrete loading platform at E. side of schoolyard, on top of W. end of lower step; chiseled square-----	694. 52

Golden, 3.8 mi. N. of, near NW. cor. sec. 17, T. 2 N., R. 5 W., 160 ft. S. of junction of T-rd. W., on top of S. end of E. head wall of concrete culvert under rd. S.; chiseled square-----	Feet 689.00
Golden, 2.8 mi. N. of, 0.3 mi. W. of La Prairie, 1.3 mi. E. of Chotton, near NE. cor. sec. 19, T. 2 N., R. 5 W., 50 ft. S. and 25 ft. W. from crossroads, in fence line, in root on NE. side of 12-in. hedge tree; copper nail and washer-----	704.84
Golden, 2.6 mi. N. of, 0.2 mi. S. of N. cor. secs. 19 and 20, T. 2 N., R. 5 W., on E. side of highway, just S. of curve to NE., in SE. corner of junction of T-street E., southernmost street of La Prairie, on top of E. end of S. head wall of concrete culvert under street E.; chiseled square-----	708.18
Golden, 1.8 mi. N. of, near NE. cor. sec. 30, T. 2 N., R. 5 W., 23 ft. S. and 25 ft. W. from crossroads, 4 ft. SE. of old fence corner post; standard iron post with bronze cap stamped "Prim Trav Sta No 17 1914 713" (elevation determined by U. S. C. & G. S. in 1935) ²⁰ -----	713.147
Golden, 0.8 mi. N. of, near SE. cor. sec. 30, T. 2 N., R. 5 W., in NW. angle of crossroads, on top of W. end of steel culvert pipe under rd. N.; painted square-----	717.59
Golden, at E. edge of, 0.2 mi. S. of quarter corner between secs. 31 and 32, T. 2 N., R. 5 W., in SW. corner of crossroads, on top of E. end of S. head wall of concrete culvert under rd. W.; chiseled square-----	724.50
Golden, at SE. corner of town, near S. cor. secs. 31 and 32, T. 2 N., R. 5 W., in NW. angle of junction of T-rd. N., at SE. corner of yard of residence, in root on SE. side of 12-in. maple tree; 40-penny spike (State Highway B. M.)-----	722.98
Golden, 1.2 mi. S. of, near NW. cor. sec. 8, T. 1 N., R. 5 W., in SE. angle of junction of T-rd. E., on top of E. end of S. head wall of concrete culvert under rd. E.; chiseled square-----	712.84
Golden, 2.0 mi. S. of, 0.2 mi. N. of SE. cor. sec. 7, T. 1 N., R. 5 W., at bridge over Bear Creek, on top of W. wing wall of S. concrete abutment; chiseled square-----	695.09
Golden, 2.2 mi. S. of, near SE. cor. sec. 7, T. 1 N., R. 5 W., 35 ft. N. and 45 ft. W. from crossroads, in SE. corner of schoolyard, in root on E. side of 30-in. maple tree; copper nail and washer-----	717.90
Golden, 2.7 mi. S. of, near quarter corner between secs. 17 and 18, T. 1 N., R. 5 W., 35 ft. N. and 25 ft. E. from crossroads, 10 ft. N. of fence corner; standard iron post with bronze cap stamped "723"-----	723.401
Golden, 3.3 mi. S. of, 0.1 mi. S. of N. cor. secs. 19 and 20, T. 1 N., R. 5 W., 70 ft. S. of private rd. W., on W. side of rd., in fence line, in root on E. side of 24-in. hedge tree; copper nail and washer-----	734.63
Golden, 4.2 mi. S. of, 240 ft. N. of S. cor. secs. 19 and 20, T. 1 N., R. 5 W., 240 ft. N. of junction of private rd. W., on top of S. end of E. head wall of concrete culvert under rd.; chiseled square-----	722.47
Golden, 4.8 mi. S. of, 2.8 mi. E. of Camp Point, near quarter corner between secs. 29 and 30, T. 1 N., R. 5 W., 100 ft. N. of crossroads, on W. side of rd., in root on S. side of 24-in. elm tree; copper nail and washer-----	715.77

²⁰This bench mark apparently had been disturbed, the elevation being approximately 0.100 ft. lower than that originally determined. The figures given represent the new elevation.

Golden, 5.3 mi. S. of, 2.7 mi. W. of Clayton, near NW. cor. sec. 32, T. 1 N., R. 5 W., in SE. angle of crossroads, on top of E. concrete head wall of culvert under rd. S.; chiseled square-----	739.13
10. From road intersection 2.7 miles west of Clayton northwest 1.1 miles along U. S. Highway 24 to junction of State Highway 102 (by S. R. Archer in 1936)	
Camp Point, 2.0 mi. along highway E. of, 85 ft. N. of highway junction, 65 ft. S. of standard iron post with bronze cap stamped "736," at concrete culvert under State Highway 102, on top of S. end of E. head wall; chiseled square ²¹ -----	729.92
11. From point near Golden west along township-line road to sec. 4, T. 1 N., R. 7 W., thence southwest to point 1 mile north and 1.5 miles east from Mendon (by S. R. Archer in 1936)	
U. S. C. & G. S. standard disk stamped "Z 55 1935"-----	720.996
Golden, at SW. corner of town, near S. cor. secs. 31 and 36, T. 2 N., Rs. 5 and 6 W., 30 ft. N. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 17 T 1924 711"	711.167
Golden, 1.8 mi. W. of, 0.2 mi. W. of SE. cor. sec. 35, T. 2 N., R. 6 W., 0.2 mi. W. of junction of T-rd. S., on N. side of rd., at fence line, 15 ft. W. of fence corner, in root on S. side of 30-in. elm tree; copper nail and washer-----	701.62
Golden, 2.7 mi. W. of, near N. cor. secs. 2 and 3, T. 1 N., R. 6 W., 175 ft. W. of crossroads, on S. side of rd., in root on S. side of 24-in. hedge tree; copper nail and washer-----	701.66
Golden, 3.7 mi. W. of, near N. cor. secs. 3 and 4, T. 1 N., R. 6 W., 25 ft. S. and 23 ft. E. from junction of T-rd. S., in fence corner, at top of bank, in concrete post; standard tablet stamped "Prim Trav Sta No 18 T 1924 683"	683.500
Golden, 4.8 mi. W. of, near N. cor. secs. 4 and 5, T. 1 N., R. 6 W., 420 ft. W. of T-rd. S., on S. side of rd., in fence line, in root on W. side of 30-in. elm tree; copper nail and washer-----	684.83
Golden, 5.7 mi. W. of, near S. cor. secs. 31 and 32, T. 2 N., R. 6 W., 250 ft. E. of section line, on opposite side of rd. and 340 ft. E. from schoolhouse, on N. side of rd., in root on SE. side of 30-in. wild-cherry tree; copper nail and washer-----	676.88
Golden, 6.2 mi. W. of, near quarter corner between secs. 6 and 31, Tps. 1 and 2 N., R. 6 W., 65 ft. W. of junction of T-rd. S., on top of E. end of S. head wall of concrete culvert under highway; chiseled square-----	652.87
Golden, 8.3 mi. W. of, near quarter corner between secs. 2 and 35, Tps. 1 and 2 N., R. 7 W., 35 ft. N. and 60 ft. E. from crossroads, inside field fence, in root on W. side of 24-in. walnut tree; copper nail and washer-----	658.28
Golden, 9.1 mi. W. of, 0.15 mi. E. of S $\frac{1}{4}$ cor. sec. 34, T. 2 N., R. 7 W., at top of hill between two drains, on N. edge of rd., in root on S. side of 24-in. hickory tree; copper nail and washer-----	635.25
Golden, 9.9 mi. W. of, near SE. cor. sec. 33, T. 2 N., R. 7 W., 35 ft. W. of junction of T-rd. S., on N. side of rd., at fence corner, in root on SW. side of 24-in. elm tree; copper nail and washer-----	640.09

²¹ Established as a reference mark to principal bench mark stamped "736," described in line 1.

	Feet
Golden, 10.4 mi. W. of, 3.0 mi. S. and 0.5 mi. E. from Loraine, 1.5 mi. N. and 3.5 mi. E. from Mendon, near quarter corner between secs. 4 and 33, Tps. 1 and 2 N., R. 7 W., 6 ft. N. and 21 ft. W. from elbow in rd. from E. to S., 2 ft. E. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 20 T 1924 590"	590.614
Mendon, 1.0 mi. N. and 3.0 mi. E. from, 0.25 mi. N. of quarter corner between secs. 4 and 5, T. 1 N., R. 7 W., 80 ft. E. of section line and private rd. S., on top of W. end of N. head wall of concrete highway culvert; chiseled square	585.12
Mendon, 1.0 mi. N. and 2.5 mi. E. from, about 0.2 mi. N. of center of sec. 5, T. 1 N., R. 7 W., 275 ft. W. of T-rd. S., at concrete culvert over Baldwin Branch, on top of W. end of S. head wall; chiseled square	596.42
Mendon, 1.0 mi. N. and 2.0 mi. E. from, about 0.1 mi. N. of quarter corner between secs. 5 and 6, T. 1 N., R. 7 W., in NW. angle of junction of T-rd. N., at fence line, in root on SW. side of 20-in. elm tree; copper nail and washer	668.19
[Continued in Mendon quadrangle, line 6]	
12. From road junction 0.5 mile south and 2.5 miles west from West Point along roads alternately south and west to point on Adams-Hancock county line 3 miles north and 1.5 miles west from Loraine (by S. R. Archer in 1936)	
T. 3 N., R. 7 W., near center of sec. 20, 15 ft. S. and 15 ft. E. from right angle in rd., at fence corner, in root on N. side of 24-in. oak tree; copper nail and washer	655.72
T. 3 N., R. 7 W., 0.2 mi. S. of N. cor. secs. 29 and 30, on E. side of rd. at right angle to W., at SW. corner of churchyard, in fence corner, in root on W. side of large four-forked maple tree; copper nail and washer	651.09
T. 3 N., R. 7 W., 0.2 mi. N. of center of sec. 30, 150 ft. S. of junction of T-rd. S., on top of E. head wall of concrete culvert under rd. S.; chiseled square	605.32
T. 3 N., R. 7 W., about 0.2 mi. S. of center of sec. 30, 30 ft. S. of T-rd. W., on W. side of rd., in fence line; 3 ft. S. of 8-in. maple tree, in root on E. side of forked maple tree; copper nail and washer	639.79
T. 3 N., R. 7 W., about 0.25 mi. W. of NE. cor. sec. 31, 40 ft. S. and 20 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 12 T 1924 566"	565.792
Lorraine, 3.0 mi. N. and 1.3 mi. W. from, about 0.3 mi. W. of SE. cor. sec. 31, T. 3 N., R. 7 W., on Adams-Hancock county line, 300 ft. W. of T-rd. N., 80 ft. N. of center line of rd., in SE. corner of schoolyard, on SW. corner of concrete curb around top of well; chiseled square	631.52

[Continued in Mendon quadrangle, line 5]

CANTON QUADRANGLE

[Latitude $40^{\circ}30'$ – $40^{\circ}45'$; longitude $90^{\circ}00'$ – $90^{\circ}15'$]

FULTON AND KNOX COUNTIES

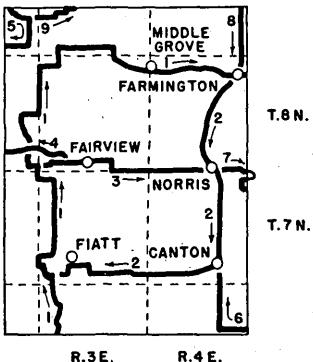


FIGURE 98.—Lines of leveling in Canton quadrangle.

1. From point just north of Cuba north along Chicago, Burlington & Quincy Railroad 1.8 miles, thence along roads generally north to point 0.5 mile north and 2 miles west from Rapatee, thence east and south to point about 1 mile east of Rapatee, thence east along Minneapolis & St. Louis Railroad to Farmington (by E. M. Bandl in 1909)

[Continued from Havana quadrangle, line 2]

	Feet
Cuba, about 3.5 mi. N. of, 1.5 mi. S. and 1.1 mi. W. from Fiatt, near SE. cor. sec. 31, T. 7 N., R. 2 E., in NW. angle of junction of T-rd. W., 45 ft. N. of rd., 2 ft. S. and 12 ft. W. from NW. fence corner; standard iron post with bronze cap stamped "653"-----	652. 430
Fiatt, 1.8 mi. W. of, near W $\frac{1}{4}$ cor. sec. 30, T. 7 N., R. 3 E., 72 ft. NE. of crossroads, 2 ft. S. and 9 ft. E. from NW. fence corner; standard iron post with bronze cap stamped "661"-----	660. 346
Fiatt, 1.0 mi. W. thence 2.5 mi. N. from, 2.6 mi. S. and 1.0 mi. W. from Fairview, near NW. cor. sec. 17, T. 7 N., R. 3 E., 90 ft. SE. of crossroads, 10 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "687.9"-----	687. 009
Fairview, 2.7 mi. W. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 36, T. 8 N., R. 2 E., 30 ft. NW. of crossroads, 2 ft. S. and 7 ft. W. from NW. fence corner; standard iron post with bronze cap stamped "701"-----	699. 957
Fairview, 2.5 mi. N. and 2.0 mi. W. from, 3.0 mi. S. and 3.0 mi. W. from Rapatee, near W. cor. secs. 18 and 19, T. 8 N., R. 3 E., in NE. angle of offset crossroads, 36 ft. SE. of junction of rd. W., 2 ft. from fence; standard iron post with bronze cap stamped "661"-----	659. 950
Rapatee, 2.0 mi. W. of, near NE. cor. sec. 6, T. 8 N., R. 3 E., near Fulton-Knox county line, 45 ft. S. of Minneapolis & St. Louis R. R. track, 12 ft. W. of rd., 2 ft. from fence; standard iron post with bronze cap stamped "630"-----	628. 893

Rapatee, 0.5 mi. N. and 1.0 mi. E. from, 1.0 mi. N. and 2.0 mi. W. from Middle Grove, near E $\frac{1}{4}$ cor. sec. 34, T. 9 N., R. 3 E., 50 ft. SW. of T-junction of N.-S. rd., 2 ft. N. and 8 ft. W. from SW. fence corner; standard iron post with bronze cap stamped "693"-----	Feet 692. 068
Middle Grove, about 0.2 mi. N. of sta., 50 ft. SW. of crossroads, 3 ft. W. of SW. corner of crossroads, 2 ft. N. of fence; standard iron post with bronze cap stamped "722"-----	720. 380
Middle Grove, 2.8 mi. E. of, about 2.5 mi. W. of Farmington; near center of sec. 4, T. 8 N., R. 4 E., 15 ft. E. of rd. to house of H. Millson, 25 ft. N. of rd., 2 ft. S. of fence; standard iron post with bronze cap stamped "655"-----	653. 593
Farmington, at New Ward School, at main entrance facing N., between double doors, in cement steps; aluminum tablet stamped "741.7" (recovered by U. S. C. & G. S. in 1935)-----	740. 330
2. From Farmington south along Chicago, Burlington & Quincy Railroad to Canton, thence generally west along roads to road junction 1.5 miles south and 1.1 miles west from Flatt (by E. M. Bandli in 1909)	
Farmington, 2.2 mi. SW. of, 3.5 mi. N. of Norris, near center of sec. 15, T. 8 N., R. 4 E., near rd. crossing, 20 ft. E. of track, 15 ft. W. of rd., 3 ft. E. of SW. corner fence post; standard iron post with bronze cap stamped "758"-----	756. 832
Norris, at first rd. N. of sta., 270 ft. W. of track, 15 ft. S. of rd., 2 ft. N. of fence; standard iron post with bronze cap stamped "732" (recovered by U. S. C. & G. S. in 1935)-----	730. 904
Norris, 2.5 mi. S. of, 1.5 mi. S. of Brereton, 2.5 mi. N. of Canton, near W $\frac{1}{4}$ cor. sec. 14, T. 7 N., R. 4 E., 15 ft. S. and 30 ft. E. from rd. crossing, 2 ft. N. of fence; standard iron post with bronze cap stamped "686" (recovered by U. S. C. & G. S. in 1935)-----	684. 835
Canton, at high school building, S. of main entrance facing E., between S. door and pillar, in top step; aluminum tablet stamped "655" (recovered by U. S. C. & G. S. in 1935)-----	653. 880
Canton, 3.0 mi. W. of, near E $\frac{1}{4}$ cor. sec. 31, T. 7 N., R. 4 E., 35 ft. SW. of crossroads, 2 ft. N. and 7 ft. W. from SW. fence corner, standard iron post with bronze cap stamped "678"-----	676. 950
Canton, 7.0 mi. W. of, 1.0 mi. S. and 1.0 mi. W. from Flatt, near E $\frac{1}{4}$ cor. sec. 33, T. 7 N., R. 3 E., 20 ft. SW. of T-junction of N.-S. rd., 4 ft. NW. of telephone pole, 2 ft. E. of fence; standard iron post with bronze cap stamped "661"-----	659. 990
3. From point 2.2 miles west of Fairview generally east along road to Norris (by E. M. Bandli in 1909)	
Fairview, near Chicago, Burlington & Quincy R. R. sta., 60 ft. NE. of crossroads, 3 ft. S. and 30 ft. E. from NE. fence corner; standard iron post with bronze cap stamped "733" (recovered in 1911)-----	732. 259
Fairview, 2.0 mi. E. thence 0.5 mi. S. from, 5.8 mi. W. of Norris, 45 ft. NE. of junction of T-rd. E., 15 ft. N. and 3 ft. W. from NE. fence corner; standard iron post with bronze cap stamped "744"-----	742. 687
Norris, 2.8 mi. W. of, near SW. cor. sec. 32, T. 8 N., R. 4 E., 30 ft. NE. of junction of T-rd. S., 1 ft. S. of fence; standard iron post with bronze cap stamped "757"-----	755. 914

²² In 1930 this bench mark was moved 48 ft. south of this position, to opposite side of road, and reset at the same elevation.

4. From Fairview west along Chicago, Burlington & Quincy Railroad
4 miles (by J. B. Leavitt in 1911)

Fairview, 2.6 mi. W. of, in NE. angle of rd. crossing, 30 ft. N. of track; standard iron post with bronze cap stamped "600.18" Feet 599.278

[Continued in Avon quadrangle, line 1]

5. From point in sec. 23, T. 9 N., R. 2 E., about 0.4 mile southeast of Way School along roads southeast and south to Slough Island School, thence west to point about 1.2 miles northeast of London Mills (by J. B. Leavitt in 1911; leveled twice)

[Continued from Galesburg quadrangle, line 1]²³

Way School, 1.2 mi. SE. of, 1.5 mi. N. thence 0.6 mi. W. from Slough Island School, near NE. cor. sec. 26, T. 9 N., R. 2 E., at bridge over Spoon River, on S. end of middle pier; chiseled cross (not recovered in 1927) 540.28

Slough Island School, about 2.5 mi. NE. of London Mills, near center of sec. 36, T. 9 N., R. 2 E., in NE. corner of crossroads; standard iron post with bronze cap stamped "612.40" 611.530

[Connects with line 2 in Avon quadrangle]

6. From point 3.5 miles south and 1.5 miles east from Canton west and north along roads to Canton (by W. A. Shumate in 1923)

[Continued from Manito quadrangle, line 1]²⁴

Canton, 3.5 mi. S. thence 1.5 mi. E. from, near center of sec. 13, T. 6 N., R. 4 E., 125 ft. S. of junction of T-rd. W., on E. side of rd., near center of concrete approach to garage; chiseled square 618.58

Canton, 3.5 mi. S. of, near quarter corner between secs. 14 and 15, T. 6 N., R. 4 E., 150 ft. E. of Chicago, Burlington & Quincy R. R. track, on W. side of rd., in concrete post; standard tablet stamped "7 S 1923"²⁵ 622.952

Canton, 200 ft. E. of corner of intersection of Second Avenue and East Lynn Streets, on S. side of East Lynn Street, on N. end of concrete sidewalk; chiseled square 657.98

7. From Norris along roads east 1.5 miles, thence generally south to point 1.5 miles east of Brereton (by C. E. Walker in 1927)

Norris, 1.0 mi. E. of, 1,327 ft. W. of NE. cor. sec. 2, T. 7 N., R. 4 E., on S. side of rd., opposite center line of T-rd. N., 2 ft. N. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 21 1910" 720.647

Reference mark, 250 ft. E. of T-rd. N., on N. side of rd., in fence line, in root on S. side of 8-in. walnut tree; copper nail and washer 718.84

Norris, 1.5 mi. E. of, in NW $\frac{1}{4}$ sec. 1, T. 7 N., R. 4 E., 700 ft. SE. of junction of T-rd. S., on N. side of rd., at angle, in field, in root on S. side of 8-in. oak tree; copper nail and washer 699.87

²³ This line crosses the southwest corner of Maquon quadrangle, but no bench marks were established along that portion of the line.

²⁴ This line crosses the southwest corner of Glasford quadrangle, but no bench marks were established along that portion of the line.

²⁵ In 1932 this bench mark was moved 109 ft. N. 30°47' E. from this position and reset at an elevation 0.420 ft. higher than that originally determined. The figures given represent the new elevation. The new location is about 200 ft. south of the junction of U. S. Highway 24 and State Highway 78, and is 60 ft. north and 36 ft. east from the junction of T-road east. In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Q 43 1935," elevation 639.969 ft.

546 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

[Jogs into Glasford quadrangle, line 5]

Brereton, 1.2 mi. E. of, about 0.2 mi. E. of SW. cor. sec. 1, T. 7 N., R. 4 E., in NW. angle of junction of E.-W. rd., at entrance to Curtis School, on SE. corner of concrete platform; chiseled square----- Feet
688.70

[Continued in Glasford quadrangle, line 6]

8. South along road 3.5 miles to Farmington (by H. S. Senseney in 1927)

[Continued from Maquon quadrangle, line 3]

Farmington, 3.0 mi. N. of, near NE. cor. sec. 26, T. 9 N., R. 4 E., in SW. corner of junction of T-rd. W., on E. side of fence, 6.5 ft. S. of fence corner; 1½-in. iron pipe with cap----- 686.95

Farmington, 1.5 mi. N. of, near E½ cor. sec. 35, T. 9 N., R. 4 E., on W. side of rd., opposite T-rd. E., in root of tree; copper nail and washer----- 677.70

9. From point in sec. 23, T. 9 N., R. 2 E. about 0.4 mile southeast of Way School along roads southeast to bridge over Spoon River, thence alternately east and north to point in sec. 20, T. 9 N., R. 3 E. (by H. S. Senseney in 1927)

[Continued from Galesburg quadrangle, line 8] ²⁸

Way School, 1.2 mi. SE. of, near NE. cor. sec. 26, T. 9 N., R. 2 E., at SE. corner of bridge over Spoon River, on top of steel pier; bolt----- 539.74

T. 9 N., R. 2 E., 100 ft. W. of E. cor. secs. 24 and 25, 20 ft. S. of rd., on E. side of fence, in concrete post; standard tablet stamped "5 S 1927"----- 623.656

Reference mark, 81 ft. E. of tablet, on N. end of concrete curb; chiseled square----- 624.80

T. 9 N., R. 3 E., 0.25 mi. W. of E. cor. secs. 19 and 30, in SE. corner of junction of T-rd. S., on end of steel drain pipe; bolt----- 613.83

T. 9 N., R. 3 E., near SE. cor. sec. 19, in right angle in rd., in root of tree; copper nail and washer----- 619.21

[Continued in Maquon quadrangle, line 4]

²⁸ This line crosses the southwest corner of Maquon quadrangle but no bench marks were established along that portion of the line.

CARLINVILLE QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $89^{\circ}45'$ – $90^{\circ}00'$]

MACOUPIN COUNTY

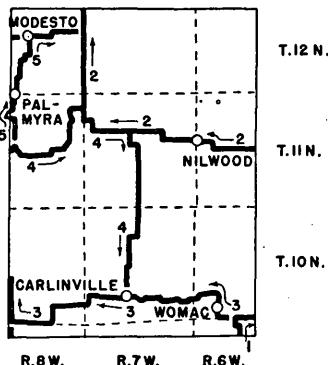


FIGURE 99.—Lines of leveling in Carlinville quadrangle.

1. From point 1 mile south and 3.7 miles west from Barnett along roads generally north and east to point 3 miles west of Barnett (by S. R. Archer in 1922)

[Continued from Gillespie quadrangle, line 4]

Barnett, 3.7 mi. W. and 0.9 mi. S. from, about 700 ft. N. of crossroads at $S\frac{1}{4}$ cor. sec. 4, T. 9 N., R. 6 W., on W. side of rd., inside fence, in root on NE. side of 18-in. elm tree; copper nail and washer----

Feet
646.90

Barnett, 4.0 mi. W. of, 0.5 mi. S. thence 1.0 mi. E. from Womac, 0.4 mi. E. of NW. cor. sec. 4, T. 9 N., R. 6 W., opposite Pleasant Point School, 20 ft. S. and 10 ft. E. from junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 62 1911 1 A 1922" (recovered in 1923)-----

640.931

Reference mark, in NW. angle of rd. junction, in SE. corner of school-yard, in root on W. side of 24-in. maple tree; copper nail and washer (recovered in 1923)-----

640.53

Barnett, 3.0 mi. W. of, near $S\frac{1}{4}$ cor. sec. 34, T. 10 N., R. 6 W., 160 ft. W. of T-rd. N., at bridge, on top of N. end of bridge seat of E. concrete abutment; chiseled square (recovered in 1923)-----

626.51

[Continued in Raymond quadrangle, line 1]

2. From point 0.2 mile west of McVey alternately west and north along roads by way of Nilwood to point 3 miles east and 1.4 mile north from Modesto (by S. R. Archer in 1922)

[Connects with line 1 in Raymond quadrangle]

McVey, 0.5 mi. W. of, near NE. cor. sec. 21, T. 11 N., R. 6 W., 40 ft. W. of crossroads, on S. side of rd., inside fence, in root on S. side of 12-in. oak tree; copper nail and washer-----

639.32

	Feet
McVey, 1.0 mi. W. of, near S $\frac{1}{4}$ cor. sec. 16, T. 11 N., R. 6 W., in NW. angle of junction of T-rd. N., in root on SW. side of 12-in. hedge tree; copper nail and washer	655.28
McVey, 1.4 mi. W. of, near NW. cor. sec. 21, T. 11 N., R. 6 W., 45 ft. S. and 25 ft. E. from junction of T-rd. S., in fence line, in root on N. side of 8-in. hedge tree; copper nail and washer	653.98
McVey, 2.5 mi. W. of, 0.9 mi. E. thence 0.5 mi. S. from Nilwood, near SW. cor. sec. 17, T. 11 N., R. 6 W., 20 ft. N. and 25 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 27 S 1922 6 A" ²⁶	662.290
Reference mark, 90 ft. E. of crossroads, on S. side of rd., in root on N. side of triple-forked elm tree; copper nail and washer	661.56
Nilwood, on E. side of, at bend NW. in rd., 400 ft. E. of concrete rd., on top of W. end of N. head wall of concrete culvert; chiseled square	662.70
Nilwood, near W. limits of, near E $\frac{1}{4}$ cor. sec. 13, T. 11 N., R. 7 W., 360 ft. W. of S. curve of S-curve in highway, on N. side of rd., in root on S. side of 24-in. elm tree; copper nail and washer	661.02
Nilwood, 1.2 mi. W. of, near quarter corner between secs. 13 and 14, T. 11 N., R. 7 W., on top of S. head wall of concrete culvert; chiseled square	666.23
Nilwood, 2.0 mi. W. of, about 950 ft. W. of center of sec. 14, T. 11 N., R. 7 W., 370 ft. E. of junction of T-rd. E., on top of S. head wall of concrete culvert; chiseled square	664.77
Nilwood, 2.0 mi. W. thence 0.5 mi. N. from, 0.25 mi. E. of W. cor. secs. 11 and 14, T. 11 N., R. 7 W., 30 ft. W. of junction of T-rd. E., 10 ft. N. of section-line fence; standard iron post with bronze cap stamped "Prim Trav Sta No 28 S 1922 7 A"	661.237
Reference mark, 140 ft. N. and 140 ft. W. from rd. junction, in field, in root on SW. side of 36-in. elm tree; copper nail and washer	659.65
Nilwood, 2.6 mi. W. and 0.5 mi. N. from, about 700 ft. E. of S $\frac{1}{4}$ cor. sec. 10, T. 11 N., R. 7 W., 90 ft. E. of house on N. side of rd., on N. side of rd., in root on SE. side of forked oak tree; copper nail and washer	661.74
Nilwood, 3.3 mi. W. of, near SW. cor. sec. 10, T. 11 N., R. 7 W., in NE. angle of junction of T-rd. N., in root 4 in. underground on SE. side of 8-in. hickory tree; copper nail and washer	656.86
Nilwood, 3.8 mi. W. and 0.5 mi. N. from, about 10 mi. by rd. N. of Carlinville, near N $\frac{1}{4}$ cor. sec. 16, T. 11 N., R. 7 W., in SW. angle of junction of T-rd. S., 20 ft. W. of fence corner, in root on SW. side of 6-in. mulberry tree; copper nail and washer (recovered in 1923)	638.47
Nilwood, 4.8 mi. W. and 0.5 mi. N. from, 5.0 mi. E. and 2.0 mi. S. from Palmyra, near N $\frac{1}{4}$ cor. sec. 17, T. 11 N., R. 7 W., 10 ft. S. and 20 ft. W. from crossroads, at fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 29 S 1922 8 A" (recovered in 1923)	608.802
Reference mark, 25 ft. S. and 55 ft. E. from crossroads, in fence line, in root 3 in. underground on W. side of 12-in. oak tree; copper nail and washer (recovered in 1923)	607.67

²⁶ In 1942 this bench mark was moved about 9 ft. north of this position. No elevation was determined.

Palmyra, 4.0 mi. E. and 2.0 mi. S. from, near S $\frac{1}{4}$ cor. sec. 7, T. 11 N., R. 7 W., in NE. angle of T-junction of N-S. rd., in root on SE. side of 24-in. oak tree; copper nail and washer (recovered in 1923)	628.53
Palmyra, 3.5 mi. W. and 1.5 mi. S. from, 410 ft. E. of W $\frac{1}{4}$ cor. sec. 7, T. 11 N., R. 7 W., 410 ft. E. of crossroads, on S. side of rd., in NW. corner of yard of residence, in root on NE. side of westernmost of row of maple trees; copper nail and washer (recovered in 1923)	641.16
Palmyra, 3.5 mi. E. and 0.8 mi. S. from, 0.25 mi. N. of SW. cor. sec. 6, T. 11 N., R. 7 W., in NE. corner of crossroads, opposite rd. S., 15 ft. N. and 20 ft. E. from bridge, in concrete post; aluminum tablet stamped "Prim Trav Sta No 26 S 1922 9 A" (recovered in 1923)	621.339
Reference mark, in NE. angle of crossroads, on W. bank of creek, 20 ft. N. of W. end of bridge, on E. side of rd. N., in root on N. side of 36-in. elm tree; copper nail and washer (recovered in 1923)	619.11
Palmyra, 3.5 mi. E. and 0.3 mi. N. from, 0.25 mi. N. of SW. cor. sec. 31, T. 12 N., R. 7 W., in NE. angle of junction of T-rd E., on top of W. corner of N. end of concrete culvert under rd. E.; chiseled square	654.40
Palmyra, 3.5 mi. E. and 0.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 36, T. 12 N., R. 8 W., in SW. angle of junction of T-rd W., on top of S. head wall directly over opening of concrete culvert under rd. W.; chiseled square	661.40
Palmyra, 3.5 mi. E. and 2.0 mi. N. from, near NW. cor. sec. 30, T. 12 N., R. 7 W., in SE. angle of crossroads, in fence corner, in root on W. side of 24-in. oak tree; copper nail and washer	663.03
Palmyra, 3.5 mi. E. and 3.0 mi. N. from, 3.0 mi. E. of Modesto, near SW. cor. sec. 18, T. 12 N., R. 7 W., 60 ft. N. and 15 ft. E. from junction of T-rd. E., at top of bank, at fence line; standard iron post with bronze cap stamped "Prim Trav. Sta No 25 S 1922 10 A" (recovered in 1923)	670.111
Reference mark, 75 ft. E. of rd. junction, on N. side of rd. E., 2 ft. W. of E. end of concrete culvert under rd. E., on top of N. head wall; chiseled square (recovered in 1923)	662.22
Modesto, 3.0 mi. E. and 0.8 mi. N. from, 0.25 mi. S. of NE. cor. sec. 13, T. 12 N., R. 8 W., 20 ft. S. and 30 ft. W. from sixteenth corner, 20 ft. S. and 6 ft. W. from fence corner, inside fence, at NE. corner of timber lot, in root on NE. side of 24-in. hickory tree; copper nail and washer	673.48
Modesto, 3.0 mi. E. and 1.4 mi. N. from, near E $\frac{1}{4}$ cor. sec. 12, T. 12 N., R. 8 W., 400 ft. S. of T-rd. E., 300 ft. N. of T-rd. W., on top of W. guard wall of concrete culvert; chiseled square	670.11
[Continued in Waverly quadrangle, line 4]	
3. From point 3 miles west of Barnett generally west along roads by way of Carlinville to point 0.5 mile south and 0.5 mile east from Enos (by E. O. Brooks in 1923)	
[Connects with line 1 in Raymond quadrangle]	
Womac, 0.5 mi. S. of, near S $\frac{1}{4}$ cor. sec. 32, T. 10 N., R. 6 W., 200 ft. E. of T-rd. N., on N. side of rd., in root on S. side of 36-in. maple tree; copper nail and washer	638.64
Womac, at crossing of Chicago & Alton R. R.; top of N. rail	639.8

550 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Womac, 0.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 32, T. 10 N., R. 6 W., 200 ft. S. of junction of T-rd. E., on E. side of rd., in root on SW. side of 24-in. hickory tree; copper nail and washer	640.76
Womac, 0.8 mi. N. thence 0.5 mi. W. from, 0.25 mi. N of SE. cor. sec. 30, T. 10 N., R. 6 W., at SE. corner of bridge over small creek, in center of top of concrete wing wall; chiseled square	600.69
Womac, 0.8 mi. N. thence 0.5 mi. W. from, at overhead crossing of Chicago & North Western Ry., in W. end of S. head wall of R. R. bridge 1968 $\frac{1}{2}$; monel-metal rivet (probably U. S. C. & G. S. B. M.) ²⁷	634.917
Womac, 0.8 mi. N. thence 1.5 mi. W. from, 4.1 mi. E. of Carlinville, near SE. cor. sec. 25, T. 10 N., R. 7 W., in NW. angle of junction of private T-rd. N., 4 ft. S. of fence corner, in concrete post; standard tablet stamped "21 EB 1923" ²⁸	625.359
Reference mark, 50 ft. S. and 200 ft. W. from tablet, on S. side of rd., in root on N. side of 24-in. maple tree; copper nail and washer	625.92
Carlinville, 2.7 mi. E. of Macoupin County courthouse, near S. side SE $\frac{1}{4}$ sec. 26, 3 ft. N. of NW. corner of steel bridge over Macoupin Creek, in center of top of stone retaining wall; chiseled square	573.14
Carlinville, 2.0 mi. E. of, near center of SW $\frac{1}{4}$ sec. 26, T. 10 N., R. 7 W., in SW. angle of junction of T-rd. W., in center of top of stone head wall of culvert; chiseled square	621.10
Carlinville, near E. limits of, 0.2 mi. N. of SW. cor. sec. 27, T. 10 N., R. 7 W., 3 ft. N. of NW. corner of bridge over creek, in center of top of concrete wing wall; chiseled square	568.59
Carlinville, 3 ft. N. and 15 ft. E. from NW. corner of Macoupin County courthouse; standard iron post with bronze cap stamped "Prim Trav Sta No 61 1911 22 EB 1923" ²⁹	621.846
Reference mark, 55 ft. N. and 15 ft. W. from iron post, in root on W. side of 24-in. elm tree; copper nail and washer	620.67
Carlinville, in W. part of, at crossing of main line of Chicago & Alton R. R.; top of W. rail	624.1
Carlinville, 1.4 mi. W. of, near W $\frac{1}{4}$ cor. sec. 29, T. 10 N., R. 7 W., in NE. angle of junction of T-rd. N., 2 ft. N. of NW. corner of steel bridge over Hurricane Creek, in center of top of stone retaining wall; chiseled square	585.65
Carlinville, 3.4 mi. W. and 0.5 mi. S. from, 6.5 mi. E. and 1.0 mi. N. from Chesterfield, near N. cor. secs. 35 and 36, T. 10 N., R. 8 W., on S. side of rd., 1 ft. N. and 5 ft. E. from corner of right-of-way fence and fence line S.; standard iron post with bronze cap stamped "23 EB 1923"	626.065
Reference mark, 140 ft. W. of iron post, on S. side of rd., 3 ft. N. of hedge fence, in root on W. side of 24-in. elm tree; copper nail and washer	625.74
Chesterfield, 5.8 mi. E. thence 1.0 mi. N. from, 0.25 mi. E. of SW. cor. sec. 26, T. 10 N., R. 8 W., on N. side of rd., at T-rd. S., in root on E. side of 24-in. Osage-orange tree; copper nail and washer	621.26

²⁷On 1936 tie line.

²⁸In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "D 102 1935," elevation 640.747 ft.

²⁹In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Carlinville 1934," elevation 628.578 ft.

	Feet
Chesterfield, 5.8 mi. E. of, 0.25 mi. E. of NW. cor. sec. 2, T. 9 N., R. 8 W., on S. side of E.-W. rd., at SW. corner of bridge over small creek, in center of top of concrete wing wall; chiseled square-----	589. 58
Chesterfield, 4.5 mi. E. of, near N. cor. secs. 3 and 4, T. 9 N., R. 8 W., on S. side of rd., at corner of right-of-way fence and fence line S., in root on N. side of 12-in. Osage-orange tree; copper nail and "washer"-----	621. 22
Chesterfield, 3.5 mi. E. of, 2.7 mi. S. and 0.5 mi. E. from Enos, near N. cor. secs. 4 and 5, T. 9 N., R. 8 W., 2 ft. N. and 25 ft. E. from corner of right-of-way fence and fence line S., on S. side of rd., at T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 60 1911 24 EB 1923" (recovered in 1924)-----	619. 191
Reference mark, 45 ft. N. and 10 ft. E. from iron post, in center of top of N. concrete head wall of culvert; chiseled square (recovered in 1924)-----	618. 21
Enos, 1.7 mi. S. and 0.5 mi. E. from, near SE cor. sec. 29, T. 10 N., R. 8 W., in NW. angle of crossroads, at entrance to Bear Rough School, 1 ft. W. of SE corner of concrete platform; chiseled square-----	615. 40
Enos, 0.7 mi. S. and 0.5 mi. E. from, near NW cor. sec. 28, T. 10 N., R. 8 W., in SE. angle at turn in rd., 45 ft. S. and 4 ft. E. from right-of-way fence corner, in root on E. side of 36-in. white-oak tree; copper nail and washer-----	597. 87

[Continued in Greenfield quadrangle, line 1]

4. From point 2.5 miles north and 2 miles east from Hettick along roads east and north to crossroads 3.5 miles east and 0.8-mile south from Palmyra, thence alternately south and east along roads and State Highway 4 to Carlinville (by E. O. Brooks in 1923; last 9.3 miles leveled twice)

[Continued from Greenfield quadrangle, line 1]

Hettick, 2.5 mi. N. and 2.2 mi. E. from, 3.0 mi. in air line S. of Palmyra, near NW. cor. sec. 21, T. 11 N., R. 8 W., 50 ft. E. of Chicago, Springfield & St. Louis Ry. track, on S. side of rd., 2 ft. N. of fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 7 W 1923 27 EB"-----	632. 535
Reference mark, 65 ft. N. and 70 ft. E. from tablet, 30 ft. N. of E.-W. fence line, on N. side of rd., in SW. corner of timber, in root on W. side of 24-in. black-oak tree; copper nail and washer-----	632. 40
Palmyra, 3.3 mi. S. and 0.8 mi. E. from, 0.25 mi. S. of NW. cor. sec. 22, T. 11 N., R. 8 W., 50 ft. S. and 20 ft. E. from crossroads, in root on N. side of 24-in. walnut tree; copper nail and washer-----	615. 05
Palmyra, 3.0 mi. S. and 2.8 mi. E. from, 0.7 mi. E. of Duncan School, near SW. cor. sec. 13, T. 11 N., R. 8 W., 30 ft. N. and 15 ft. E. from center of angle in rd., 1 ft. W. of right-of-way fence line N., in concrete post; standard tablet stamped "28 EB 1923"-----	631. 494
Reference mark, 5 ft. S. and 45 ft. W. from tablet, in NW. angle of rd., on right-of-way fence line, in root on NW. side of 12-in. white-oak tree; copper nail and washer-----	631. 25
Palmyra, 2.0 mi. S. and 3.0 mi. E. from, 0.25 mi. E. of W. cor. secs. 12 and 13, T. 11 N., R. 8 W., on summit of hill, on W. side of rd., in NE. corner of timber, in root on N. side of 24-in. white-oak tree; copper nail and washer-----	635. 85

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	Feet
Palmyra, 1.3 mi. S. and 3.0 mi. E. from, near center of NW $\frac{1}{4}$ sec. 12, T. 11 N., R. 8 W., 50 ft. E. of corner of right-of-way fence, in W. angle of rd., on N. side of road, opposite farmhouse, in fence line, in root on W. side of 24-in. maple tree; copper nail and washer	645. 88
Palmyra, 0.8 mi. S. and 3.0 mi. E. from, near center of SW $\frac{1}{4}$ sec. 1, T. 11 N., R. 8 W., 100 ft. S. and 15 ft. E. from T-junction of E.-W. rd., in root on W. side of 36-in. elm tree; copper nail and washer	647. 49
Carlinville, 9.3 mi. by rd. N. of courthouse, 0.25 mi. S. of center of sec. 16, T. 11 N., R. 7 W., 40 ft. N. and 30 ft. W. from junction of T-rd. E., in root on N. side of 12-in. hickory tree; copper nail and washer	662. 95
Carlinville, 8.8 mi. N. of, 0.25 mi. N. of SW. cor. sec. 15, T. 11 N., R. 7 W., in SE. angle of T-junction of E.-W. rd., in center of top of concrete head wall of culvert; chiseled square	657. 92
Carlinville, 7.5 mi. N. of along State Highway 4, 4.7 mi. SW. of Nilwood, near E. cor. secs. 21 and 28, T. 11 N., R. 7 W., on W. side of rd., opposite center line of T-rd. E., 3 ft. S. and 1 ft. E. from corner of right-of-way fence and fence line W., in concrete post; standard tablet stamped "29 EB 1923"	660. 578
Reference mark, 280 ft. S. of tablet, in center of top of concrete head wall at W. end of culvert; chiseled square	661. 48
Carlinville, 6.5 mi. N. of, near W. cor. secs. 27 and 34, T. 11 N., R. 7 W., near Kasten School, on E. side of rd., 5 ft. W. of corner of right-of-way fence and fence line, in center of top of S. concrete head wall of culvert under private entrance to farmhouse; chiseled square	652. 94
Carlinville, 5.6 mi. N. of, about 500 ft. N. of SW. cor. sec. 34, T. 11 N., R. 7 W., on E. side of rd., in center of top of E. concrete head wall of culvert; chiseled square	651. 58
Carlinville, 4.4 mi. N. of, 0.5 mi. N. of Gore School, near SW. cor. sec. 3, T. 10 N., R. 7 W., in NE. angle of junction of T-rd. E., in center of top of concrete head wall of culvert; chiseled square	638. 91
Carlinville, 3.4 mi. N. of, 0.5 mi. W. of Gore School, near center of sec. 9, T. 10 N., R. 7 W., in NW. angle of crossroads, 8 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "30 EB 1923"	636. 973
Reference mark, 1 ft. S. and 10 ft. E. from tablet, in center of top of W. concrete head wall of culvert; chiseled square	636. 72
Carlinville, 2.9 mi. N. of, near quarter corner between secs. 9 and 16, T. 10 N., R. 7 W., on E. side of rd., in center of top of E. concrete head wall of culvert; chiseled square	632. 62
Carlinville, 1.8 mi. N. of, about 800 ft. W. of N $\frac{1}{4}$ cor. sec. 21, T. 10 N., R. 7 W., in SE. angle of junction of T-rd. S., in center of top of S. concrete head wall of culvert; chiseled square	621. 01
Carlinville, in N. part of, at crossing of main line of Chicago & Alton R. R.; top of N. rail	627. 2
5. From point 2.5 miles north and 2.2 miles east from Hettick generally north and east along roads by way of Palmyra to road junction 3 miles east and 0.3 mile north from Modesto (by E. O. Brooks in 1923)	
Palmyra, 2.0 mi. in air line S. of, 0.25 mi. E. of SW. cor. sec. 9, T. 11 N., R. 8 W., on W. side of rd., in SE. corner of yard of Simpson Hill School, in root on NE. side of 24-in. maple tree; copper nail and washer	647. 71

[Jogs into Greenfield quadrangle, line 2]

	Feet
Palmyra, 85 ft. N. and 25 ft. E. from C. S. & St. L. Ry. sta., 60 ft. E. of track, 3 ft. N. of concrete walk, in concrete post; standard tablet stamped "Prim Trav Sta No 8 1923 31 EB"-----	677.871
Reference mark, 2 ft. N. and 7 ft. E. from tablet, in root on N. side of 24-in. maple tree; copper nail and washer-----	677.61
Palmyra, 2.7 mi. NE. of, 1.0 mi. S. of Modesto, in NE, angle of junction of T-rd. N., in center of top of concrete head wall of culvert; chiseled square-----	681.80
Modesto, in S. part of, at crossing of C. S. & St. L. Ry.; top of S. rail-----	688.3
Modesto, in SW. angle of crossroads, at ditch under concrete walk, 1 ft. E. of walk, in center of top of concrete retaining wall; chiseled square-----	683.78
Modesto, at crossroads, 6 ft. N. and 1 ft. W. from chiseled square on retaining wall of ditch, on E. edge of concrete walk; chiseled square-----	684.36
Modesto, 50 ft. S. of C. S. & St. L. Ry. sta., at crossing; top of E. rail-----	687.0
Modesto, 1.3 mi. E. of, 150 ft. N. of T-junction of N-S. rd., on E. side of rd., in center of top of concrete head wall of culvert; chiseled square-----	679.97
Modesto, 2.0 mi. E. and 0.3 mi. N. from, 0.25 mi. N. of SW. cor. sec. 13, T. 12 N., R. 8 W., 20 ft. N. and 40 ft. E. from junction of T-rd. N., in fence line, in root on S. side of 24-in. Osage-orange tree; copper nail and washer-----	680.27

CARTHAGE QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $91^{\circ}00'$ – $91^{\circ}15'$]

HANCOCK COUNTY

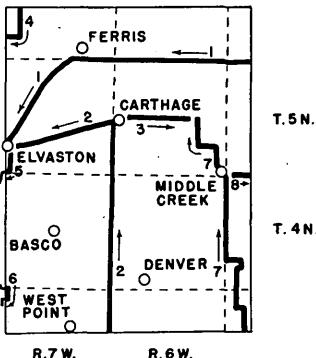


FIGURE 100.—Lines of leveling in Carthage quadrangle.

1. From point 0.5 mile south of Webster west along township-line road to point 0.8 mile southwest of Ferris, thence southwest along Toledo, Peoria & Western Railroad to Elvaston (by E. M. Bandli in 1908; reeveled by S. R. Archer in 1910)

[Continued from Colchester quadrangle, line 1]

Webster, 0.5 mi. S. thence 1.3 mi. W. from, at cor. Tps. 5 and 6 N., Rs. 5 and 6 W., at crossroads, on stone marking township corner; highest point-----	Feet 625.31
Webster, 0.5 mi. S. thence 3.3 mi. W. from, 0.5 mi. S. thence 5.8 mi. E. from Ferris, near SW. cor. sec. 35, T. 6 N., R. 6 W., 30 ft. NE. of junction of T-rd. N., 1 ft. S. of fence; standard iron post with bronze cap stamped "609"-----	607.737
Ferris, 0.5 mi. S. thence 2.8 mi. E. from, near SW. cor. sec. 32, T. 6 N., R. 6 W., in NE. angle of offset crossroads, 9 ft. N. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "629"-----	628.105
Ferris, 0.5 mi. S. of, at S $\frac{1}{4}$ cor. sec. 35, T. 6 N., R. 7 W., at junction of T-rd. N., on stone marking quarter corner; highest point-----	684.26
Ferris, 0.5 mi. S. thence 0.5 mi. W. from, 0.05 mi. E. of SW. cor. sec. 35, at offset crossroads, 15 ft. N. of junction of T-rd. S., 2 ft. S. of fence; standard iron post with bronze cap stamped "688"-----	686.375
Ferris, 3.3 mi. along R. R. SW. of, 3.0 mi. NE. of Elvaston, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 9, T. 5 N., R. 7 W., 27 ft. SE. of track, at rd. crossing, 5 ft. E. of warning post, 2 ft. W. of fence; standard iron post with bronze cap stamped "704"-----	702.994
Elvaston, in front of sta.; top of rail-----	674.3

[Continued in Keokuk quadrangle, line 1]

2. From point 2 miles east and 0.8 mile south from West Point north along range-line road to Carthage, thence southwest along State Highway 10 to Elvaston (by W. A. Shumate in 1921)

[Continued from Camp Point quadrangle, line 2]

West Point, 2.0 mi. E. of, 2.5 mi. N. of Chili, near SW. cor. sec. 7, T. 3 N., R. 6 W., in NE. angle of crossroads, 3 ft. W. of fence, in concrete post; standard tablet stamped "1921 676"	Feet 675.308
West Point, 2.0 mi. E. thence 2.0 mi. N. from, near NE. cor. sec. 1, T. 3 N., R. 7 W., on W. side of N.-S. rd., about 100 ft. S. of SE. corner of cemetery, on concrete culvert; chiseled square	651.10
West Point, 2.0 mi. E. thence 2.5 mi. N. from, 1.7 mi. W. of Denver, near W $\frac{1}{4}$ cor. sec. 31, T. 4 N., R. 6 W., in NE. angle of crossroads, 1 ft. W. of fence; standard iron post with bronze cap stamped "1921 665"	664.065
West Point, 2.0 mi. E. thence 4.5 mi. N. from, 6.3 mi. S. of city square in Carthage, near W $\frac{1}{4}$ cor. sec. 19, T. 4 N., R. 6 W., in NE. angle of crossroads, 4 ft. W. of fence, in concrete post; standard tablet stamped "1921 678" ³⁰	677.450
Carthage, 4.0 mi. S. of, 0.2 mi. S. of NW. cor. sec. 7, T. 4 N., R. 6 W., on E. side of rd., on N. concrete abutment of bridge; chiseled square	616.65
Carthage, 3.0 mi. S. of, near NW. cor. sec. 6, T. 4 N., R. 6 W., in SE. angle of crossroads, 3 ft. NW. of hedge fence; standard iron post with bronze cap stamped "1921 679"	677.634
Carthage, 2.0 mi. S. of, near NW. cor. sec. 31, T. 5 N., R. 6 W., about 30 ft. NE. of crossroads, on N. side of E.-W. rd., on concrete culvert; chiseled square	650.80
Carthage, in SW. part of, 0.3 mi. N. of SE cor. sec. 24, T. 5 N., R. 7 W., 50 ft. S. of Wabash Ry. track, 50 ft. N. of street running E., on W. side of rd., in root of 30-in. maple tree; copper nail and washer	677.74
Carthage, on E. side of Hancock County courthouse, 1.5 ft. above ground, in base of large concrete pillar supporting columns; standard tablet stamped "1921 677" (recovered in 1922)	675.675
Carthage, at Hancock County courthouse, 60 ft. S. of NW. corner of yard, in root of 48-in. elm tree; copper nail and washer	673.34
Carthage, 1.0 mi. W. of, in NW $\frac{1}{4}$ sec. 24, T. 5 N., R. 7 W., 10 ft. S. of Wabash Ry. track, on N. side of E.-W. rd., on concrete culvert; chiseled square	686.91
Carthage, 2.4 mi. along highway SW. of, in SE $\frac{1}{4}$ sec. 22, T. 5 N., R. 7 W., 370 ft. SW. of crossroads, on SE. side of highway, in root of 40-in. walnut tree; copper nail and washer	699.65
Carthage, 3.5 mi. SW. of, 2.7 mi. NE. of Elvaston, near NW. cor. sec. 27, T. 5 N., R. 7 W., in SE. angle of crossroads, 4 ft. N. of fence; standard iron post with bronze cap stamped "1921 695"	693.580
Elvaston, 1.7 mi. E. of, 0.2 mi. N. of E $\frac{1}{4}$ cor. sec. 29, T. 5 N., R. 7 W., 120 ft. W. of junction of rd. N., on S. side of highway, on lowest step of entrance to farmhouse; chiseled square	675.04
Elvaston, at public school, 50 ft. E. of crossroads, on S. side of highway, on concrete step at entrance; chiseled square	671.17

³⁰ In 1941 this bench mark was reported destroyed.

[Connects with line 1 in Keokuk quadrangle]

3. From Carthage east about 4 miles along State Highway 10 to Franklin School (by W. A. Shumate in 1921; reeveled by V. S. Seward in 1922)

Carthage, 0.2 mi. N. thence 0.8 mi. E. from city square, in SE. angle of junction of T-rd. S., on E. end of concrete culvert; chiseled square

Feet
669.07

Carthage, 2.0 mi. E. of, near SW. cor. sec. 16, T. 5 N., R. 7 W., in NE. angle of junction of T-rd. N., in concrete post; standard tablet stamped "1921 656" (post reported broken)

655.350

Carthage, 3.0 mi. E. of, near NW. cor. sec. 22, T. 5 N., R. 7 W., about 100 ft. E. of junction of T-rd. S., on S. side of E.-W. rd., on concrete steps to farmhouse; chiseled square

636.78

Carthage, 4.3 mi. E. of, at Franklin School, near S $\frac{1}{4}$ cor. sec. 14, T. 5 N., R. 6 W., on S. side of building, in NE. angle of crossroads, in porch wall, 1.3 ft. above ground; aluminum tablet stamped "1921 634" (recovered in 1932)

633.054

4. From point near quarter corner between secs. 19 and 20, T. 6 N., R. 7 W., south 1.5 miles, thence west 1 mile to point near southwest corner sec. 30, T. 6 N., R. 7 W. (by S. R. Archer in 1931)

[Continued from Lomax quadrangle, line 7]

T. 6 N., R. 7 W.; near SE. cor. sec. 19, 150 ft. N. of crossroads, on W. side of rd., on S. side of driveway to residence, in root on SE. side of 24-in. maple tree; copper nail and washer

688.14

T. 6 N., R. 7 W., near NE. cor. sec. 31, at Lafayette School, 155 ft. W. of crossroads, on S. side of rd., at NW. corner of schoolyard, in root on N. side of 20-in. maple tree; copper nail and washer

702.16

[Continued in Keokuk quadrangle, line 3]

5. From Elvaston south along road 1.5 miles, thence west along township-line road to point 0.2 mile east of corner of Tps. 4 and 5 N., Rs. 7 and 8 W. (by S. R. Archer in 1932)

[A jog from Keokuk quadrangle, line 5]

Elvaston, 0.5 mi. S. of, 180 ft. S. of quarter corner between secs. 30 and 31, T. 5 N., R. 7 W., 180 ft. S. of junction of T-rd. E., 2.5 ft. N. of S. end of concrete culvert, on top of W. head wall; chiseled square

636.53

Elvaston, 1.5 mi. S. of, near S $\frac{1}{4}$ cor. sec. 31, T. 5 N., R. 7 W., 270 ft. W. of crossroads, on N. side of rd., in fence line, in root on W. side of 12-in. hedge tree; copper nail and washer

654.86

[Continued in Keokuk quadrangle, line 5]

6. Along roads east, south, and west in sec. 6, T. 3 N., R. 7 W. (by S. R. Archer in 1932)

[A jog from Keokuk quadrangle, line 5]

T. 3 N., R. 7 W., near center of sec. 6, 15 ft. E. of junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 11 T 1924"

612.781

[Continued in Keokuk quadrangle, line 5]

7. From point near northwest corner sec. 17, T. 3 N., R. 5 W., along roads alternately north and west by way of Middle Creek to point 4.3 miles east of Carthage (by S. R. Archer in 1932)

[Continued from Camp Point quadrangle, line 8]

Bowen, 3.0 mi. E. thence 1.5 mi. N. from, 40 ft. NE. of SW. cor. sec. 8, T. 3 N., R. 5 W., 40 ft. NE. of stone marking section corner, in NE. angle of junction of T-rd. E., at corner of hedge, 4 ft. NE. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 55 1910"-----	Feet 677.730
Reference mark, in SE. corner of junction of T-rd. E., in fence corner, in root on E. side of 24-in. walnut tree; copper nail and washer-----	680.01
T. 3 N., R. 5 W., near quarter corner between secs. 7 and 8, 45 ft. S. and 30 ft. W. from crossroads, in field, in root on NE. side of 26-in. elm tree; copper nail and washer-----	662.81
T. 3 N., R. 5 W., near NE. cor. sec. 7, 240 ft. S. of junction of T-rd. W., on top of N. end of W. headwall of concrete culvert under rd. S.; chiseled square-----	631.88
T. 3 N., R. 5 W., near N $\frac{1}{4}$ cor. sec. 7, in SE. angle of junction of T-rd. E., on top of angle of E. head wall of concrete culvert under N-S. rd.; chiseled square-----	641.98
Tps. 3 and 4 N., R. 5 W., near quarter corner between secs. 6 and 31, 100 ft. N. of top of hill, 5 ft. N. and 50 ft. E. from fence corner, on W. side of abandoned rd., in root on E. side of 24-in. oak tree; copper nail and washer-----	640.10
T. 4 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 31, on N. bank of Panther Creek, 20 ft. E. of N-S. quarter-line fence, in notch cut in trunk on W. side of leaning three-forked birch tree; copper nail and washer-----	572.86
T. 4 N., R. 5 W., near center of sec. 31, 20 ft. S. and 25 ft. E. from crossroads, inside fence line, in concrete post; standard tablet stamped "3 A 1932"-----	636.415
T. 4 N., R. 5 W., near center of sec. 30, 185 ft. W. of junction of T-rd. N., on N. head wall of concrete culvert under rd. W.; chiseled square-----	614.65
T. 4 N., R. 5 W., near W $\frac{1}{4}$ cor. sec. 30, 4.8 mi. S. of Middle Creek, 95 ft. N. of junction of T-rd. N., on E. side of rd., 25 ft. N. of SW. corner of yard of farmhouse, inside yard fence, in root on NW. side of 24-in. maple tree; copper nail and washer-----	644.84
Middle Creek, 4.0 mi. S. of, 0.25 mi. N. of SW. cor. sec. 19, T. 4 N., R. 5 W., at NW. corner of triangle at junction of T-rd. E., in root on E. side of large three-forked elm tree; copper nail and washer-----	606.47
Middle Creek, 3.3 mi. S. of, near SW. cor. sec. 18, T. 4 N., R. 5 W., 50 ft. N. of junction of T-rd. W., 3.5 ft. S. of N. end of E. head wall, at foot of N. post of iron railing of concrete culvert; chiseled square-----	572.34
Middle Creek, 3.2 mi. S. of, 0.12 mi. N. of SW. cor. sec. 18, T. 4 N., R. 5 W., 25 ft. S. and 50 ft. E. from junction of T-rd. E., 13 ft. E. of fence corner, 2 ft. E. of E. gatepost, in concrete post; standard tablet stamped "4 A 1932"-----	623.624
Middle Creek, 2.4 mi. S. of, 0.2 mi. S. of NW. cor. sec. 18, T. 4 N., R. 5 W., 0.14 mi. S. of junction of T-rd. W., on top of NE. end of E. wing wall of N. stone abutment of bridge; chiseled square-----	593.37
Middle Creek, 1.2 mi. S. of, near SE. cor. sec. 1, T. 4 N., R. 6 W., 160 ft. W. of crossroads, on N. side of rd., outside of fence, at SW. corner of yard of farmhouse, in root on NE. side of 18-in. hickory tree; copper nail and washer-----	624.02
Middle Creek, 0.2 mi. S. of, near SW. cor. sec. 31, T. 5 N., R. 5 W., 95 ft. N. of township corner, on E. side of rd., in root on NE. side of 36-in. elm tree; copper nail and washer-----	627.43

Middle Creek, 0.4 mi. W. thence 0.2 mi. S. from, near N $\frac{1}{4}$ cor. sec. 1, T. 4 N., R. 6 W., 75 ft. W. of junction of T-rd. W., on S. side of rd., 5 ft. N. and 5 ft. E. from gate in yard fence, in root on NE. side 24 in. from trunk of 24-in. maple tree; copper nail and washer-----	Feet 637.81
Middle Creek, 0.4 mi. W. of store and discontinued post office, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 36, T. 5 N., R. 6 W., 25 ft. NW. of crossroads, at fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 54 1910"-----	626.822
Middle Creek, 0.4 mi. W. thence 0.8 mi. N. from, near S $\frac{1}{4}$ cor. sec. 25, T. 5 N., R. 6 W., at offset crossroads, 125 ft. N. of junction of T-rd. N., on top of N. end of W. head wall of concrete culvert; chiseled square-----	584.46
Middle Creek, 0.4 mi. W. thence 1.3 mi. N. from, near center of sec. 25, T. 5 N., R. 6 W., 140 ft. S. of crossroads, on W. side of rd., in field, in root on NE. side of 40-in. boxelder tree; copper nail and washer-----	642.35
Middle Creek, 1.3 mi. N. and 1.4 mi. W. from, 1.5 mi. S. of Franklin School, near center of sec. 26, T. 5 N., R. 6 W., 75 ft. N. and 30 ft. E. from junction of T-rd. N., 45 ft. N. and 10 ft. E. from SW. corner of yard of farmhouse, in root on NW. side of 30-in. boxelder tree; copper nail and washer-----	654.35
Franklin School, 1.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 23, T. 5 N., R. 6 W., in NW. angle of crossroads, at N. end of concrete culvert under rd. W., on top of N. end of angular head wall; chiseled square-----	633.63
8. From corner of Tps. 4 and 5 N., Rs. 5 and 6 W., near Middle Creek, east along township-line road 1.5 miles (by S. R. Archer in 1932)-----	590.48

[Continued in Colchester quadrangle, line 6]

CHANDLERVILLE QUADRANGLE
 [Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $90^{\circ}00' - 90^{\circ}15'$]
CASS, FULTON, MASON, AND SCHUYLER COUNTIES

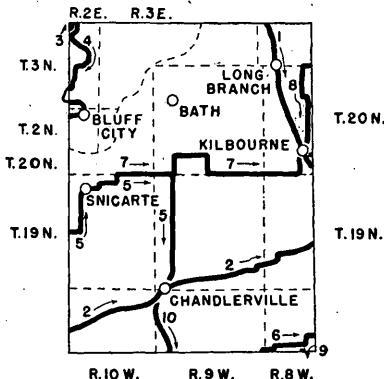


FIGURE 101.—Lines of leveling in Chandlerville quadrangle.

1. From point 2.4 miles north of Long Branch southeast along Chicago, Peoria & St. Louis Railroad^a to point 1.2 miles southeast of Kilbourne (by R. C. Howard in 1905; double-rodded line)

[Continued from Havana quadrangle, line 1]

Long Branch, 255 ft. S. of sta., at engine room of grain elevator, in W. wall, 5.4 ft. N. of S. wall, 4.6 ft. S. of N. wall, 5.5 ft. above ground; aluminum tablet stamped "1905 498 Adj"-----

Kilbourne, 150 ft. S. of sta., at McFadden elevator, in N. side of NW. foundation pillar; aluminum tablet stamped "1905 502 Adj"-----

[Continued in Petersburg quadrangle, line 1]

2. From point 5.8 miles southwest of Chandlerville northeast along roads to point about 2.5 miles southwest of Oakford (by P. E. Fletcher in 1908)

[Continued from Beardstown quadrangle, line 1]

Chandlerville, 4.8 mi. SW. of, in S 1/2 sec. 9, T. 18 N., R. 10 W., 2 ft. W. of mail box of Angus Taylor, Jr., in concrete post; aluminum tablet-----

Chandlerville, 3.6 mi. SW. of, in NE 1/4 sec. 10, T. 18 N., R. 10 W., on SE. side of rd., at farmhouse of Robert Fielding, in NE. corner of front yard, 97 ft. N. of NE. corner of house, 3 ft. from front fence, 2.7 ft. from E. fence; U. S. C. E. P. B. M. 30

cap on pipe----- 488.040

bolt in limestone block----- 484.100

Feet
490.830

495.141

503.791

^a Now the Chicago & Illinois Midland Ry.

Chandlerville, on N. side of River Street, in back yard of residence of Mrs. S. L. B. Chandler, adjoining Chicago, Peoria & St. Louis Ry. right-of-way on E., 79 ft. N. and 52.2 ft. W. from NW. corner of square upright part of house, 26.8 ft. E. of center line of track, 2.2 ft. E. of E. right-of-way fence; U. S. C. E. P. B. M. 31 (recovered in 1932)	Feet
cap on pipe	463. 293
bolt in limestone block	459. 353
Chandlerville, 4.5 mi. NE. of, near NW. cor. sec. 36, T. 19 N., R. 9 W., 30 ft. N. of rd., 23 ft. E. of lane N. along section line, in concrete post; aluminum tablet stamped "1 S 1928"	496. 403
Chandlerville, about 7.5 mi. NE. of, 3.8 mi. SW. of Oakford, near N $\frac{1}{4}$ cor. sec. 29, T. 19 N., R. 8 W., 23 ft. S. and 33 ft. W. from crossroads, in concrete post; aluminum tablet stamped "2 S 1928" (recovered in 1928)	483. 252
[Continued in Petersburg quadrangle, line 3]	
3. From point about 4 miles east of Leesburg along roads north 0.6 mile to point about 0.15 mile south of center of sec. 11, T. 3 N., R. 2 E. (by S. L. Parker in 1919)	
[Continued from Beardstown quadrangle, line 2]	
Leesburg, 4.0 mi. E. of, about 0.25 mi. N. of center of sec. 14, T. 3 N., R. 2 E., 180 ft. W. of rd. junction, 160 ft. W. of iron bridge, on S. side of rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 11 1916 534" (recovered in 1923)	533. 083
T. 3 N., R. 2 E., about 0.1 mi. N. of S $\frac{1}{4}$ cor. sec. 11, in hollow, 15 ft. W. of wire fence, 15 ft. S. of small drain, in root on S. side of 12-in. leaning elm tree; copper nail and washer	558. 96
[Continued in Havana quadrangle, line 6]	
4. From point in southeast quarter sec. 11, T. 3 N., R. 2 E., along roads generally south to Bluff City, thence west 1 mile (by W. A. Shumate in 1923)	
[Continued from Havana quadrangle, line 9]	
T. 3 N., R. 2 E., near NE. cor. sec. 14, 120 ft. S. of rd. junction, on E. side of rd., in root of 48-in. black-oak tree; copper nail and washer	601. 57
T. 3 N., R. 2 E., near center of SW $\frac{1}{4}$ sec. 14, 100 ft. SE. of rd. junction, in root of 48-in. elm tree; copper nail and washer	523. 14
T. 3 N., R. 2 E., about 0.25 mi. N. of center of sec. 24, 25 ft. N. of rd., 28 ft. N. of W. corner of iron bridge over Kerton Creek, 125 ft. SW. of house, in root of 36-in. triple elm tree; copper nail and washer	495. 84
T. 3 N., R. 2 E., about 0.25 mi. S. of center of sec. 24, at bend W. in rd., in root of 30-in. oak tree; copper nail and washer	605. 78
T. 3 N., R. 2 E., 0.25 mi. W. of SE. cor. sec. 23, 2.5 mi. N. and 0.7 mi. W. from Bluff City, on W. side of rd., 20 ft. N. of T-junction of N.-S. rd., 1 ft. from fence, in concrete post; standard tablet stamped "11 S 1923"	631. 380
Reference mark, 80 ft. W. of rd., in root of 30-in. hickory tree; copper nail and washer	631. 31
Bluff City, 1.7 mi. N. and 0.8 mi. W. from, in SE $\frac{1}{4}$ sec. 26, T. 3 N., R. 2 E., on E. side of rd., 100 ft. N. of small bridge, on large rock; chiseled square	508. 70

[Jogs into Beardstown quadrangle, line 5]

Bluff City; near W. limits of, 120 ft. W. of junction of E.-W. rd., on N. side of rd., 1 ft. S. of fence, in concrete post; standard tablet stamped "12 S 1923"-----
 Reference mark, 200 ft. W. of rd. junction, on S. side of rd., on concrete base for pump; chiseled square-----

Feet
461. 383
465. 53

[Continued in Beardstown quadrangle, line 6]

5. From point 2.3 miles south and 1 mile west from Snicarte alternately east and north along roads to point 2 miles north of Saidora, thence south along Jacksonville & Havana Railroad to Chandlerville, (by W. A. Shumate in 1923)

[Continued from Beardstown quadrangle, line 7]

Snicarte, 2.3 mi. S. and 0.2 mi. W. from, near NE. cor. sec. 20, T. 19 N., R. 10 W., in SW. angle of crossroads, in root of 60-in. black-oak tree; 20-penny nail-----

456. 91

Snicarte, 1.3 mi. S. and 0.2 mi. W. from, near SE. cor. sec. 8, T. 19 N., R. 10 W., 110 ft. W. of crossroads, on N. side of rd., in root of 18-in. elm tree; 20-penny nail-----

451. 14

Snicarte, 0.3 mi. S. and 0.2 mi. W. from, near NW. cor. sec. 9, T. 19 N., R. 10 W., in SE. angle of bend E. in rd., 4 ft. NE. of fence post, in root of 10-in. locust tree; 20-penny nail-----

450. 26

Snicarte, at store of Isaac Lippert, in concrete porch, 16 ft. W. of front door; standard tablet stamped "20 S 1923" and "T T Sta No 29 JLS 1927"-----

450. 639

Reference mark, at Sarff store, on S. side of rd., in line with rd. N., on concrete base of gasoline pump; chiseled square (recovered in 1928)-----

445. 80

Snicarte, 0.7 mi. E. of, near E $\frac{1}{4}$ cor. sec. 3, T. 20 N., R. 10 W., 120 ft. W. of junction of N.-S. rd., on N. side of rd., in root of 60-in. elm tree; 20-penny nail (recovered in 1928)-----

449. 59

Snicarte, 0.2 mi. N. and 1.7 mi. E. from, near E $\frac{1}{4}$ cor. sec. 3, T. 20 N., R. 10 W., in SW. angle of junction of N.-S. rd., in root of 15-in. hedge tree; 20-penny nail (recovered in 1928)-----

453. 33

Snicarte, 0.7 mi. N. and 4.2 mi. E. from, 2.0 mi. N. thence 0.5 mi. W. from Saidora, about 4 mi. along State Highway 78 S. of Bath, near N $\frac{1}{4}$ cor. sec. 6, T. 19 N., R. 9 W., in SE. angle of highway intersection, in concrete post; standard tablet stamped "21 S 1923" (recovered in 1928)-----

472. 685

Saidora, just NE. of sta., 3.4 mi. N. of Chandlerville, near SW. cor. sec. 8, T. 19 N., R. 9 W., near NW. corner of front yard of house of George Bell; U. S. C. E. P. B. M. 32

cap on pipe-----
 bolt in limestone block-----

475. 370

471. 429

6. From point 2.2 miles west and 0.2 mile south from Newmansville alternately north and east along roads to point 0.5 mile north and 0.7 mile east from Newmansville (by W. E. Baird in 1928)

[Continued from Virginia quadrangle, line 4]

Newmansville, 1.5 mi. W. of, near quarter corner between secs. 18 and 19, T. 18 N., R. 8 W., 15 ft. W. of rd., in line with T-rd., E., on high bank, near hedge fence, in concrete post; standard tablet stamped "T T Sta No 22 JLS 1927"-----

606. 660

Reference mark, 400 ft. S. and 25 ft. W. from rd. junction, in root on N. side of wild-cherry tree; copper nail and washer-----

603. 44

Newmansville, 0.5 mi. W. of, near N $\frac{1}{4}$ cor. sec. 20, T. 18 N., R. 8 W., about 2,000 ft. E. of junction of T-rd. N., 30 ft. S. of rd., in root on W. side of 14-in. wild-cherry tree; copper nail and washer (recovered in 1932)-----	Feet 616.67
Newmansville, near E. edge of, 110 ft. E. of bridge over Middle Creek, 65 ft. W. of right-angle bend in rd., on S. side of rd., in root on W. side of double elm tree; copper nail and washer (recovered in 1932)-----	572.19
[Continued in Petersburg quadrangle, line 6]	
7. From Snicarte generally east along roads to point 0.2 mile south and 0.6 mile east from Kilbourne (by L. V. Johnson in 1928)	
Snicarte, 0.7 mi. N. and 1.8 mi. E. from, 2.0 mi. N. thence 2.9 mi. W. from Saidora, near E. cor. secs. 3 and 34, Tps. 19 and 20 N., R. 10 W., 10 ft. W. of rd. fork, in concrete post; standard tablet stamped "T T Sta No 28 JLS 1927"-----	
Reference mark, 3 ft. S. of tablet, in root on E. side of 48-in. oak tree; copper nail and washer-----	456.839
Saidora, 2.0 mi. N. thence 1.9 mi. W. from, near SE. cor. sec. 35, T. 20 N., R. 10 W., 70 ft. N. and 45 ft. W. from crossroads, in root on N. side of 20-in. apple tree; copper nail and washer-----	456.35
Saidora, 2.1 mi. N. and 0.2 mi. E. from, 3.9 mi. S. of Bath, in SW $\frac{1}{4}$ sec. 32, T. 20 N., R. 9 W., 380 ft. N. of junction of N.-S. rd., 50 ft. E. of center line of rd., in knob on W. side of 10-in. catalpa tree; copper nail and washer-----	460.70
Bath, 3.0 mi. S. of, 0.25 mi. E. of SW. cor. sec. 29, T. 20 N.; R. 9 W., 180 ft. E. of crossroads, 25 ft. N. of center line of rd., in knob on S. side of 18-in. butternut tree; copper nail and washer-----	490.06
Bath, 3.0 mi. S. thence 0.8 mi. E. from, near SW. cor. sec. 28, T. 20 N., R. 9 W., 80 ft. E. of fence line S., 50 ft. N. of center line of rd., in root on E. side of elm tree; copper nail and washer-----	474.88
Bath, 3.0 mi. S. thence 1.7 mi. E. from, 0.2 mi. S. and 5.1 mi. W. from Kilbourne, near S. cor. secs. 27 and 28, T. 20 N., R. 9 W., 22 ft. N. of junction of T-rd. S., in concrete post; standard tablet stamped "T T Sta No 27 JLS 1927"-----	483.58
Reference mark, 110 ft. S. of rd. junction, 30 ft. W. of center line of rd., in root on N. side of 12-in. oak tree; copper nail and washer-----	500.196
Kilbourne, 1.2 mi. S. and 5.1 mi. W. from, near SW. cor. sec. 34, T. 20 N., R. 9 W., 110 ft. N. and 10 ft. E. from crossroads, in root on W. side of 36-in. oak tree; copper nail and washer-----	498.07
Kilbourne, 1.2 mi. S. and 4.1 mi. W. from, near SE. cor. sec. 34, T. 20 N., R. 9 W., 15 ft. N. and 60 ft. W. from crossroads, in root on S. side of 30-in. oak tree; copper nail and washer-----	496.05
Kilbourne, 1.2 mi. S. and 3.1 mi. W. from, near SW. cor. sec. 36, T. 20 N., R. 9 W., 27 ft. N. and 60 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 26 JLS 1927"-----	493.57
Reference mark, 10 ft. N. and 10 ft. W. from crossroads, in root on SE. side of 30-in. oak tree; copper nail and washer-----	489.688
Kilbourne, 1.2 mi. S. and 2.1 mi. W. from, near SE. cor. sec. 36, T. 20 N., R. 9 W., 25 ft. N. and 40 ft. W. from crossroads, in root on N. side of 12-in. elm tree; copper nail and washer-----	492.23
Kilbourne, 1.2 mi. S. and 1.2 mi. W. from, near SE. cor. sec. 31, T. 20 N., R. 8 W., 30 ft. N. and 60 ft. W. from crossroads, in root on S. side of 60-in. maple tree; copper nail and washer-----	488.03
	485.13

Kilbourne, 1.2 mi. S. and 0.2 mi. W. from, near SE. cor. sec. 32, T. 20 N., R. 8 W., 24 ft. N. and 36 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 25 JLS 1927" (recovered in 1929)	Feet 485. 804
Reference mark, 20 ft. N. and 30 ft. E. from crossroads, in root on SE. side of 36-in. locust tree; copper nail and washer (recovered in 1929)	484. 69
Kilbourne, 0.2 mi. S. and 0.2 mi. W. from, near NE. cor. sec. 32, T. 20 N., R. 8 W., 40 ft. S. and 50 ft. W. from junction of T-rd. W., in root on N. side of 60-in. elm tree; copper nail and washer (recovered in 1929)	492. 88
[Continued in Petersburg quadrangle, line 7]	
8. From point 2 miles east of Long Branch along roads west 0.5 mile, thence generally south to crossroads 1.2 miles south and 0.2 mile west from Kilbourne (by G. W. Moore in 1929)	
[Continued from Petersburg quadrangle, line 8]	
Long Branch, 1.5 mi. E. of, about 4.5 mi. N. of Kilbourne, near S $\frac{1}{4}$ cor. sec. 33, T. 21 N., R. 8 W., 0.25 mi. E. of N. cor. secs. 4 and 5, T. 20 N., R. 8 W., 25 ft. N. of junction of T-rd. S., 220 ft. W. of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 42 JLS 1927"	493. 584
Kilbourne, 3.4 mi. N. of, in NW $\frac{1}{4}$ sec. 9, T. 20 N., R. 8 W., about 0.15 mi. N. of E-W. line fence, 20 ft. E. of rd., 90 ft. N. of front gate of farmyard, in root on NW. side of twin boxelder tree; copper nail and washer	491. 95
Kilbourne, 2.8 mi. N. and 0.4 mi. E. from, 0.08 mi. E. of S $\frac{1}{4}$ cor. sec. 9, T. 20 N., R. 8 W., 15 ft. N. and 70 ft. W. from junction of T-rd. S., in root on S. side of 23-in. oak tree; copper nail and washer	501. 95
Kilbourne, 1.8 mi. N. and 0.3 mi. E. from, 24 ft. S. and 30 ft. W. from crossroads at probable quarter corner between secs. 16 and 21, T. 20 N., R. 8 W., in concrete post; standard tablet stamped "T T Sta No 43 JLS 1927" ³²	497. 495
Reference mark, 90 ft. N. and 25 ft. E. from crossroads, in yard, in root on SE. side of 32-in. oak tree; copper nail and washer	497. 76
Kilbourne, 0.8 mi. N. and 0.3 mi. E. from, near S $\frac{1}{4}$ cor. sec. 21, T. 20 N., R. 8 W., 35 ft. N. and 20 ft. E. from junction of T-rd. E., 15 ft. N. of fence corner, in fence, in root on NW. side of 10-in. Osage-orange tree; copper nail and washer	507. 09
Kilbourne, near NE. corner of, near center of sec. 28, T. 20 N., R. 8 W., 130 ft. S. and 18 ft. W. from crossroads, in root on W. side of 24-in. maple tree; copper nail and washer ³³	496. 16
9. From point near east edge of Newmansville along roads west and south about 0.5 mile (by S. R. Archer in 1932)	
Newmansville, in SE. angle of junction of T-rd. S. at NW. corner of concrete porch in front of store, on top of NW. corner of concrete base of gasoline pump; chiseled square	602. 00

³² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Q 35 1935," elevation 499.835 ft.

³³ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Q 35 1935," elevation 499.835 ft.

564 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

[Continued in Virginia quadrangle, line 6]

10. From Chandlerville south along Jacksonville & Havana Railroad
to point near Palmerton (by S. R. Archer in 1932)

Chandlerville, 0.4 mi. SW. of, at concrete highway bridge over Panther Creek, on top of E. parapet of N. abutment; chiseled square.	Feet 468.05
Chandlerville, 1.0 mi. SW. of, at rd. crossing, 15 ft. E. of track, at W. end of highway bridge, on plate at top of N. steel pier; top of easternmost of two bolts.	484.01
Chandlerville, 1.9 mi. S. of, about midway of curve in R. R., in ravine on E. side of track, 25 ft. E. of E. right-of-way fence, in root on NE. side of 24-in. cottonwood tree with triangular blaze on W. side; copper nail and washer.	516.00
Chandlerville, 2.9 mi. S. of, 0.7 mi. N. of Palmerton, at N. end of tangent, 0.16 mi. N. of trestle over creek, on E. side of track, 7 ft. E. of E. right-of-way fence, about halfway up S. side of ravine, in root on SE. side of 24-in. oak tree with triangular blaze on W. side; copper nail and washer.	561.85
Palmerton, 150 ft. W. of rd. crossing, on N. side of E.-W. rd., in root on SE. side of 24-in. apple tree; copper nail and washer.	611.86

[Connects with line 5 in Virginia quadrangle]

COLCHESTER QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $90^{\circ}45'$ – $91^{\circ}00'$]

HANCOCK, McDONOUGH, AND SCHUYLER COUNTIES

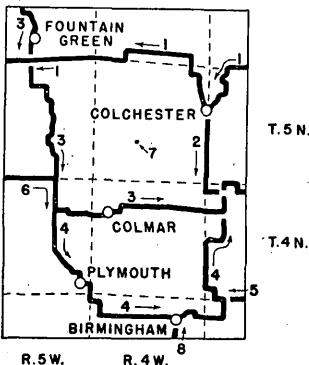


FIGURE 102.—Lines of leveling in Colchester quadrangle.

1. From point 4 miles west of Macomb along roads alternately west and south to Colchester, thence northwest to crossroads near Argyle Church, thence west to point 0.5 mile south of Webster (by E. M. Bandli in 1909; reeveled to Colchester and near Webster by S. R. Archer in 1910)

[Continued from Macomb quadrangle, line 1]

Colchester, one block N. of Chicago, Burlington & Quincy R. R. track, at bank, on concrete walk; point marked "698.9"	Feet 698.06
Colchester, 1.7 mi. NW. of, 1.0 mi. S. and 0.5 mi. E. from Argyle Church, near center of sec. 1, T. 5 N., R. 4 W., 130 ft. W. of rd. junction, on S. side of rd., 1 ft. N. of fence; standard iron post with bronze cap	692.860
Argyle Church, 500 ft. NW. of, near $W\frac{1}{4}$ cor. sec. 36, T. 6 N., R. 4 W., 30 ft. NE. of crossroads, 2 ft. S. and 7 ft. E. from fence corner; standard iron post with bronze cap	708.526
Argyle Church, 2.5 mi. W. of, near center of sec. 33, T. 6 N., R. 4 W., 30 ft. NE. of crossroads, 2 ft. S. and 12 ft. E. from fence corner; standard iron post with bronze cap	703.997
Argyle Church, 5.5 mi. W. and 0.5 mi. S. from, 0.5 mi. S. thence 4.3 mi. E. from Webster, 2.0 mi. N. and 0.7 mi. E. from Joetta, 0.5 mi. W. of Hancock-McDonough county line, near $N\frac{1}{4}$ cor. sec. 1, T. 5 N., R. 5 W., 33 ft. SE. of junction of T-rd. S., 2 ft. N. and 3 ft. E. from fence corner; standard iron post with bronze cap	688.025
Webster, 0.5 mi. S. and 0.5 mi. E. from, 0.2 mi. W. thence 1.0 mi. S. from Fountain Green, near $S\frac{1}{4}$ cor. sec. 33, T. 6 N., R. 5 W., in NE. angle of offset crossroads, opposite junction of rd. S., 2 ft. S. and 30 ft. E. from fence corner; standard iron post with bronze cap stamped "665"	663.664

[Continued in Carthage quadrangle, line 1]

2. From Colchester south and east along roads to point 0.5 mile south and 0.5 mile west from Fandon (by E. M. Bandli in 1909)

Colchester, 1.0 mi. S. of, near NW. cor. sec. 19, T. 5 N., R. 3 W., 50 ft. SE. of crossroads, 1 ft. N. and 7 ft. E. from NW. corner of schoolyard; standard iron post with bronze cap stamped "681"²⁴ Feet
679.736

Colchester, 4.5 mi. S. thence 1.0 mi. E. from, 0.5 mi. W. thence 0.5 mi. S. from Fandon, near E $\frac{1}{4}$ cor. sec. 6, T. 4 N., R. 3 W., 20 ft. NW. of junction of T-rd. W., 2 ft. S. and 12 ft. W. from fence corner; standard iron post with bronze cap stamped "1909 663" and "Prim Trav Sta No 59.1910" (recovered in 1912) 661.673

3. From point 1.7 miles north and 0.7 mile west from Fountain Green along roads alternately south and east to road junction 0.5 mile west of St. Mary, thence generally east by way of Colmar to sec. 8, T. 4 N., R. 3 W., thence north to point 0.5 mile south and 0.5 mile west from Fandon (by S. R. Archer in 1910)

[Continued from La Harpe quadrangle, line 1]

Fountain Green, 1.5 mi. N. and 0.7 mi. W. from, near E $\frac{1}{4}$ cor. sec. 20, T. 6 N., R. 5 W., in NW. angle of crossroads, near fence corner; standard iron post with bronze cap stamped "628" (recovered in 1931) 628.118

Fountain Green, 1.5 mi. N. and 0.2 mi. W. from, at center of sec. 21, T. 6 N., R. 5 W., at junction of T-rd. S., on stone marking center of section; highest point 633.81

Fountain Green, near center of town, at NE. corner of street crossing, opposite Woodman's Hall, on concrete sidewalk; chiseled square 681.75

Fountain Green, 0.2 mi. W. thence 2.2 mi. S. from, near center of sec. 9, T. 5 N., R. 5 W., in NW. angle of rd. fork, in base on S. side of small cottonwood tree; three nails 583.98

Fountain Green, 3.2 mi. S. and 1.0 mi. E. from, 1.0 mi. SW. of Joetta, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 15, T. 5 N., R. 5 W., 45 ft. SE. of junction of T-rd. S., 15 ft. E. and 3 ft. N. from fence corner; standard iron post with bronze cap stamped "653" 653.080

Joetta, 1.0 mi. SW. thence 1.9 mi. S. from, 0.5 mi. W. thence 4.0 mi. N. from St. Mary, near center of SE $\frac{1}{4}$ sec. 22, T. 5 N., R. 5 W., at SW. corner of steel bridge over Crooked Creek, on square steel plate on cylindrical pier; bolt head 530.85

St. Mary, 3.2 mi. N. and 0.7 mi. W. from, 0.25 mi. E. of center of sec. 27, T. 5 N., R. 5 W., on W. end of small concrete culvert; chiseled square 591.10

St. Mary, 2.9 mi. N. and 0.7 mi. W. from, 0.2 mi. NW. of SE. cor. sec. 27; T. 5 N., R. 5 W., in SE. angle of rd. fork, 2 ft. N. of fence, in root on N. side of small elm tree; spike 600.14

St. Mary, 0.5 mi. W. thence 1.7 mi. N. from, near NW. cor. sec. 2, T. 4 N., R. 5 W.; in SE. angle of offset crossroads, on S. side of township-line rd., opposite junction of rd. N., 115 ft. E. of junction of rd. S., 3 ft. N. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 60 1910 596" (recovered in 1932) 595.946

St. Mary, 0.5 mi. W. thence 0.8 mi. N. from, at cor. secs. 2, 3, 10, and 11, T. 4 N., R. 5 W., at crossroads, on stone marking section corner; chiseled square 585.07

²⁴ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Colchester 1934," elevation 696.970 ft.

	Feet
St. Mary, 0.5 mi. W. of, 0.25 mi. N. of SW. cor. sec. 11, T. 4 N., R. 5 W., in SE. angle of junction of T-rd. E., at S. end of drain, in top of small oak post; spike-----	575. 67
St. Mary, 0.2 mi. S. and 1.2 mi. E. from, 0.25 mi. W. of SE. cor. sec. 12, T. 4 N., R. 5 W., at NW. corner of bridge over Crooked Creek, on N. end of concrete bridge seat; chiseled square-----	523. 11
St. Mary, 0.2 mi. S. and 2.1 mi. E. from, 0.5 mi. SW. of Colmar, near S $\frac{1}{4}$ cor. sec. 7, T. 4 N., R. 4 W., in NW. angle of crossroads, in root on S. side of 30-in. oak tree; spike-----	562. 58
Colmar, 100 ft. W. of town hall, 220 ft. W. of crossing of Chicago, Burlington & Quincy R. R., on N. side of E.-W. rd., 150 ft. W. of junction of rd. NE., opposite junction of rd. SW., 2 ft. S. of fence; standard iron post with bronze cap stamped "556" ³⁵ -----	555. 288
Colmar, 0.2 mi. N. and 1.6 mi. E. from, near center of sec. 9, T. 4 N., R. 4 W., in NW. angle of junction of T-rd. N., in root on E. side of 42-in. elm tree; spike-----	518. 43
Colmar, 0.2 mi. N. and 3.1 mi. E. from, near E $\frac{1}{4}$ cor. sec. 10, T. 4 N., R. 4 W., 50 ft. NW. of crossroads, 2 ft. S. and 20 ft. W. from fence corner; standard iron post with bronze cap stamped "5S6"-----	586. 212
Colmar, 0.2 mi. N. and 5.1 mi. E. from, 1.5 mi. S. and 1.5 mi. W. from Fandon, near E $\frac{1}{4}$ cor. sec. 12, T. 4 N., R. 4 W., in SW. angle of crossroads, at culvert under E.-W. rd., on SW. wing wall; chiseled square-----	605. 98
Fandon, 1.5 mi. S. and 1.0 mi. W. from, near center of sec. 7, T. 4 N., R. 3 W., in NE. angle of crossroads, in root on W. side of 30-in. oak tree; spike-----	631. 41
4. From road junction 0.5 mile west of St. Mary along roads southeast and east by way of Plymouth and Birmingham to southeast corner sec. 6, T. 3 N., R. 3 W., thence generally north to point 1.5 miles south and 0.5 mile west from Fandon (by S. R. Archer in 1910)	
St. Mary, 0.5 mi. W. thence 1.2 mi. S. from, 3.5 mi. NW. of Plymouth, near NW. cor. sec. 23, T. 4 N., R. 5 W., 35 ft. SE. of crossroads, 6 ft. S. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "583" (recovered in 1932)-----	582. 912
Plymouth, in NE. corner of park, opposite Commercial Hotel, at corner of hitching rack; standard iron post with bronze cap stamped "656" (recovered by U. S. C. & G. S. in 1935) ³⁶ -----	655. 379
Plymouth, 0.5 mi. E. of park, near E $\frac{1}{4}$ cor. sec. 36, T. 4 N., R. 5 W., on W. side of Hancock-McDonough county line, in SW. angle of junction of T-rd. S., at NE. corner of schoolyard, in root on E. side of 30-in. maple tree; spike-----	641. 70
Plymouth, 0.5 mi. E. thence 1.0 mi. S. from, 0.5 mi. S. of corner of Hancock, McDonough, and Schuyler Counties, near W $\frac{1}{4}$ cor. sec. 6, T. 3 N., R. 4 W., at right-angle turn in rd. from N. to E., 25 ft. SE. of junction of private rd. S., 1 ft. N. and 12 ft. E. from fence corner; standard iron post with bronze cap stamped "644"-----	644. 091
Plymouth, 1.7 mi. S. and 1.0 mi. E. from, near S $\frac{1}{4}$ cor. sec. 6, T. 3 N., R. 4 W., in NE. angle of junction of T-rd. N., in root on E. side of 30-in. elm tree; spike-----	649. 62

³⁵ In 1936 this bench mark was reported destroyed.

³⁶ In 1941 this bench mark was reported destroyed.

568 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Plymouth, 1.7 mi. S. and 2.0 mi. E. from, 3.1 mi. W. of Birmingham, at Round Top School, near $N\frac{1}{4}$ cor. sec. 8, T. 3 N., R. 4 W., on S. side of rd., at junction of rd. N., at E. side of N. end of walk to schoolhouse, on flat stone; chiseled square-----	639. 54
Birmingham, 2.3 mi. W. of, 0.25 mi. E. of SW. cor. sec. 4, T. 3 N., R. 4 W., 25 ft. NE. of junction of T-rd. S., 3 ft. S. of fence; standard iron post with bronze cap stamped "635"-----	634. 856
Birmingham, at NW. corner of town, 0.2 mi. S. of $N\frac{1}{4}$ cor. sec. 11, T. 3 N., R. 4 W., 50 ft. NE. of junction of T-rd. E., opposite store, 10 ft. N. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "532" (recovered in 1936)-----	532. 198
Birmingham, 0.7 mi. NE. of, 0.25 mi. S. of quarter corner between secs. 1 and 2, T. 3 N., R. 4 W., at center of rd. fork, in root on N. side of oak tree; spike-----	497. 48
Birmingham, 2.0 mi. E. of, 0.5 mi. W. of Guinea School and Church, near $S\frac{1}{4}$ cor. sec. 6, T. 3 N., R. 3 W., 20 ft. N. of junction of T-rd. S., 4 ft. S. of fence; standard iron post with bronze cap stamped "590" (recovered in 1912)-----	589. 403
Guinea School, 100 ft. NE. of, at cor. secs. 5, 6, 7, and 8, T. 3 N., R. 3 W., at junction of T-rd. W., on stone marking section corner; chiseled square (recovered in 1912)-----	595. 90
Guinea School, 1.7 mi. N. and 1.0 mi. W. from, 0.5 mi. S. of Scott Church, 0.2 mi. N. of E $\frac{1}{4}$ cor. sec. 36, T. 4 N., R. 4 W., 20 ft SW. of junction of T-rd. W., 2 ft. N. and 6 ft. W. from fence corner; standard iron post with bronze cap stamped "572"-----	571. 958
Scott Church, 1.6 mi. N. of, 0.15 mi. S. of NE. cor. sec. 24, T. 4 N., R. 4 W., opposite junction of rd. NE., on W. side of rd., in front of house, in root on E. side of small hickory tree; spike-----	607. 75
Scott Church, 1.8 mi. N. and 0.8 mi. E. from, 3.0 mi. S. and 0.7 mi. W. from Fandon, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 18, T. 4 N., R. 3 W., 60 ft. NE. of junction of T-rd. S., on N. side of rd., 1 ft. S. of fence; standard iron post with bronze cap stamped "611"-----	610. 593
5. From point on McDonough-Schuylerville county line near northwest corner sec. 4, T. 3 N., R. 3 W., along roads alternately west and south to road junction 2 miles east of Birmingham (by R. G. Clinite in 1912)	

[Continued from Macomb quadrangle, line 2]

Doddsville, 5.4 mi. W. of, 1.2 mi. N. and 3.6 mi. E. from Birmingham, at N. cor. secs. 4 and 5, T. 3 N., R. 3 W., at junction of T-rd. S., on stone marking section corner; chiseled square-----	644. 37
6. From point 0.2 mile south and 1.4 miles east from Middle Creek east along township-line road to crossroads 1.7 miles north and 0.5 mile west from St. Mary, thence south 3 miles to crossroads 3.5 miles northwest of Plymouth (by S. R. Archer in 1932)	

[Continued from Carthage quadrangle, line 8]

St. Mary, 1.7 mi. N. thence 3.0 mi. W. from, 0.2 mi. S. and 1.8 mi. E. from Middle Creek, near $N\frac{1}{4}$ cor. sec. 5, T. 4 N., R. 5 W., in SW. angle of junction of T-rd. S., on W. concrete brace of corner fence post; chiseled square-----	602. 44
St. Mary, 1.7 mi. N. thence 2.4 mi. W. from, 0.1 mi. E. of SW. cor. sec. 33, T. 5 N., R. 5 W., 500 ft. E. of junction of T-rd. N., on N. head wall of concrete culvert; chiseled square-----	588. 50

	Feet
St. Mary, 1.7 mi. N. thence 1.5 mi. W. from, near S. cor. secs. 33 and 34, T. 5 N., R. 5 W., in NE. angle of junction of T-rd. N., near fence corner, in root on W. side of 24-in. hedge tree; copper nail and washer-----	602.14
St. Mary, 0.5 mi. W. thence 1.7 mi. N. from, near SE. cor. sec. 34, T. 5 N., R. 5 W., at offset crossroads, 65 ft. W. of junction of T-rd. N., 35 ft. E. of junction of T-rd. S., on N. side of township-line rd., at easternmost tree in row of maple trees along S. side of yard, in root on E. side of 30-in. maple tree; copper nail and washer ⁷⁷ -----	596.59
St. Mary, 0.5 mi. W. thence 0.8 mi. N. from, near SW. cor. sec. 3, T. 4 N., R. 5 W., in NW. angle of crossroads, in fence corner, in root on NE. side of 12-in. hedge tree; copper nail and washer-----	586.23
St. Mary, 0.5 mi. W. thence 0.2 mi. S. from, near NW. cor. sec. 14, T. 4 N., R. 5 W., 115 ft. S. of junction of T-rd. W., on top of S. end of E. head wall of concrete culvert; chiseled square-----	560.16
7. Southwest along Chicago, Burlington & Quincy Railroad (from second-order leveling by U. S. Coast & Geodetic Survey in 1935 along the line designated "Bushnell to Golden")	
Tennessee, 2.4 mi. SW. of, 3.2 mi. NE. of Colmar, 0.15 mi. S. of quarter corner between secs. 28 and 29, T. 5 N., R. 4 W., 500 ft. E. of crossing of E.-W. rd., at junction of T-rd. W., 200 ft. N. of junction of T-rd. E., on edge of N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 61 1910"-----	643.732
8. From point near north quarter corner sec. 14, T. 3 N., R. 4 W., north along road 1 mile to Birmingham (by S. R. Archer in 1936)	
[Connects with line 5 in Augusta quadrangle]	
Birmingham, 0.3 mi. S. of, 5.6 mi. NW. of Brooklyn, near center of sec. 11, T. 3 N., R. 4 W., at NW. corner of bridge over Flour Creek, on concrete pier; chiseled square-----	498.64
Birmingham, 13 ft. N. and 45 ft. W. from junction of T-rd. E., in front of store, on NW. corner of concrete floor of porch; chiseled cross ⁷⁸ -----	533.37

⁷⁷ Established as a reference mark to standard iron post stamped "Prim Trav Sta No 60 1910 596," described in line 3.

⁷⁸ Established as a reference mark to standard iron post stamped "532," described in line 4.

CORNLAND QUADRANGLE

[Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $89^{\circ}15' - 89^{\circ}30'$]

CHRISTIAN, LOGAN, AND SANGAMON COUNTIES

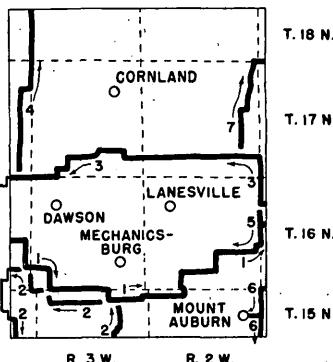


FIGURE 103.—Lines of leveling in Cornland quadrangle.

1. From point 1.3 miles south and 2.4 miles east from Riverton along roads alternately east and south to point about 2.2 miles south and 1 mile east from Mechanicsburg, thence north and east to point 1 mile south and 0.3 mile west from Illiopolis (by P. E. Fletcher in 1908)

[Continued from Springfield quadrangle; line 4]

T. 16 N., R. 4 W., near SE. cor. sec. 25, 0.5 mi. S. and 4.5 mi. W. from Mechanicsburg, in concrete post; aluminum tablet (recovered in 1922)³⁹

Mechanicsburg, 1.5 mi. S. thence 2.5 mi. W. from, near SW cor. sec. 33,

T. 16 N., R. 3 W., in concrete post; aluminum tablet

Mechanicsburg, 2.2 mi. S. of, near center of sec. 2, T. 15 N., R. 3 W., 20

ft. N. and 40 ft. W. from crossroads, 3 ft. S. of right-of-way fence, in concrete post; aluminum tablet (recovered in 1922 and stamped "20 EB 1922")⁴⁰

Mechanicsburg, 2.2 mi. S. thence 3.0 mi. by rd. E. from, 0.25 mi. S. of

NW. cor. sec. 5, T. 15 N., R. 2 W., in concrete post; aluminum tablet

Mechanicsburg, 0.5 mi. S. and 4.3 mi. in air line E. from, 0.25 mi. W. of

NE. cor. sec. 33, T. 16 N., R. 2 W., 17 ft. S. and 15 ft. W. from junction of T-rd. S., in concrete post; aluminum tablet stamped "19 S 1928" by traverse party (recovered in 1940)

	Feet
	580. 388
	593. 037
	593. 032
	599. 020
	605. 321

³⁹ In 1941 this bench mark was reported destroyed.

⁴⁰ In 1941 this bench mark was replaced by a standard tablet stamped "20 EB 1922 Reset 1941" set 10 ft. north of this position, at an elevation 0.111 ft. higher than that originally determined. The figures given represent the new elevation.

Mechanicsburg, 0.5 mi. N. and 6.5 mi. in air line E. from, 1.5 mi. W. and 2.5 mi. S. from Iliopolis, near SW. cor. sec. 24, T. 16 N., R. 2 W., 27 ft. N. and 36 ft. E. from junction of T-rd. N., in concrete post; aluminum tablet stamped "20 S 1928" by traverse party (recovered in 1940)---

Feet
597. 536

[Continued in Niantic quadrangle, line 1]

2. From point 0.8 mile north of Roby along roads north to crossroads 2.2 miles south of Mechanicsburg, thence alternately west and north to point 7.8 miles east of Springfield, thence generally south to point 2 miles east of Rochester (by E. O. Brooks in 1922)

[Continued from Taylorville quadrangle, line 6]

Roby, 2.0 mi. N. of, near center of sec. 11, T. 15 N., R. 3 W., in NE. angle of junction of T-rd. E., at Bellefontaine School, on NW. corner of well platform; chiseled square-----

595. 47

Roby, 3.0 mi. N. of, 2.2 mi. S. of Mechanicsburg, near center of sec. 2, T. 15 N., R. 3 W., 22 ft. N. and 23 ft. E. from crossroads, 2 ft. W. of corner fence post, on top of concrete retaining wall to corner fence post; chiseled square-----

592. 70

Mechanicsburg, 2.2 mi. S. thence 0.8 mi. W. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 8, T. 15 N., R. 3 W., 75 ft. N. and 30 ft. E. from crossroads, near SW. corner of yard of residence, in root on W. side of 30-in. maple tree; copper nail and washer-----

590. 99

Mechanicsburg, 2.2 mi. S. thence 2.0 mi. W. from, 30 ft. N. and 27 ft. E. from junction of T-rd. N., on right-of-way fence line, in knot on NE. side of 12-in. Osage-orange tree, 26 in. above ground; copper nail and washer-----

603. 75

Mechanicsburg, 2.2 mi. S. thence 3.3 mi. W. from, 0.25 mi. W. of center of sec. 5, T. 15 N., R. 3 W., 160 ft. E. of cross-fence line N., on S. side of rd., 8 ft. N. of hedge fence, in root on N. side of 24-in. elm tree; copper nail and washer-----

585. 82

Mechanicsburg, 2.2 mi. S. thence 3.9 mi. W. from, 9.6 mi. E. and 1.5 mi. S. from Springfield, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 6, T. 15 N., R. 3 W., 30 ft. N. and 25 ft. E. from T-junction of N.-S. rd., 2 ft. W. of fence line, in concrete post; standard tablet stamped "21 EB 1922"-----

559. 837

Reference mark, 5 ft. S. and 80 ft. W. from tablet, in SE. corner of pasture, in root on N. side of 18-in. white-oak tree; copper nail and washer-----

561. 18

Springfield, 9.4 mi. E. and 1.0 mi. S. from, near N $\frac{1}{4}$ cor. sec. 6, T. 16 N., R. 3 W., 320 ft. S. of crossroads, on S. end of W. concrete head wall of culvert over small drain; chiseled square-----

556. 88

Springfield, 8.7 mi. E. thence 0.8 mi. S. from, 0.25 mi. N. of SE. cor. sec. 36, T. 16 N., R. 4 W., 4 ft. SE. of SE. corner of steel bridge over Clear Creek, in center of top of concrete retaining wall; chiseled square-----

537. 58

Springfield, 8.5 mi. E. of, 0.25 mi. W. of NE. cor. sec. 36, T. 16 N., R. 4 W., 23 ft. S. and 20 ft. E. from junction of T-rd. N., 2 ft. N. of fence line, in concrete post; standard tablet stamped "22 EB 1922" and "Prim Trav Sta No 48 F 1925"⁴¹-----

654. 058

Reference mark, 30 ft. S. and 30 ft. W. from tablet, in NE. corner of pasture, in root on N. side of 24-in. walnut tree; copper nail and washer-----

565. 12

⁴¹ In 1941 this bench mark was replaced by a standard tablet stamped "P T 48 F 1925 Reset 1941," set 5 ft. south of this position, at an elevation 0.056 ft. lower than that originally determined. The figures given represent the new elevation.

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[Jogs into Springfield quadrangle, line 6]

Rochester, 2.0 mi. E. thence 1.0 mi. N. from, 3.0 mi. W. thence 1.0 mi. N. from Buckhart, near E $\frac{1}{4}$ cor. sec. 11, T. 15 N., R. 4 W., in SW. angle of rd. junction, in center of top of W. concrete head wall of culvert under rd. S.; chiseled square-----

Feet
574. 54

[Connects with line 5 in Taylorville quadrangle]

3. From point 0.8 mile west of Illiopolis along roads west 0.4 mile, thence north 2.5 miles, thence generally west and southwest to point 2.1 miles east and 0.5 mile north from Spaulding (by W. C. Elledge in 1940)

[Continued from Niantic quadrangle, line 5]

Illiopolis, 0.5 mi. W. of R. R. sta., near quarter corner between secs. 7 and 12, T. 16 N., Rs. 1 and 2 W., 40 ft. N. and 60 ft. W. from crossing of U. S. Highway 36 and Illinois Terminal R. R., on NE. corner of base of warning signal; chiseled square-----

603. 08

Illiopolis, 0.5 mi. W. thence 0.7 mi. N. from, about 600 ft. N. of W $\frac{1}{4}$ cor. sec. 6, T. 16 N., R. 1 W., on E. side of rd., in ditch, on W. side of catch drain; chiseled square-----

603. 38

Illiopolis, 0.5 mi. W. thence 2.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 31, T. 17 N., R. 1 W., 9 ft. S. and 14 ft. E. from junction of private T-rd. E., at S. end of culvert, on large rock; chiseled square-----

604. 16

Illiopolis, 2.5 mi. N. and 1.5 mi. W. from, near SE. cor. sec. 26, T. 17 N., R. 2 W., 25 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "P T Sta No 8 F 1925 598"-----

597. 865

Illiopolis, 2.5 mi. N. and 2.5 mi. W. from, near SW. cor. sec. 26, T. 17 N., R. 2 W., at Harbert School, on E. side of S. end of concrete walk to schoolhouse; chiseled square-----

597. 54

Illiopolis, 2.5 mi. N. and 3.5 mi. W. from, near SW. cor. sec. 27, T. 17 N., R. 2 W., 18 ft. N. and 30 ft. E. from crossroads, on N. head wall of concrete culvert; chiseled square-----

598. 80

Illiopolis, 2.5 mi. N. and 4.5 mi. W. from, 2.5 mi. N. and 0.7 mi. E. from Lanesville, near NW. cor. sec. 33, T. 17 N., R. 2 W., 25 ft. S. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 9 F 1925 596"-----

596. 321

Lanesville, 2.5 mi. N. and 0.3 mi. W. from, near NE. cor. sec. 31, T. 17 N., R. 2 W., in SW. angle of crossroads, at Ray School, on concrete platform, 6 in. E. of bottom step; chiseled square-----

599. 60

Lanesville, 2.5 mi. N. and 1.3 mi. W. from, near SE. cor. sec. 25, T. 17 N., R. 3 W., 27 ft. N. and 100 ft. W. from crossroads, in root on E. side of hedge tree; copper nail and washer-----

598. 46

Lanesville, 2.5 mi. N. and 2.8 mi. W. from, 2.5 mi. N. and 0.5 mi. E. from Buffalo, near N $\frac{1}{4}$ cor. sec. 35, T. 17 N., R 3 W., 20 ft. S. and 40 ft. E. from T-junction of N-S. rd., in concrete post; standard tablet stamped "P T Sta No 10 F 1925 605"-----

605. 211

Buffalo, 3.0 mi. N. of, near quarter corner between secs. 26 and 27, T. 17 N., R. 3 W., on N. side of rd., in front of schoolhouse, on SW. corner of concrete platform; chiseled square-----

635. 27

Buffalo, 2.7 mi. N. and 0.8 mi. W. from, near center of SW $\frac{1}{4}$ sec. 27, T. 17 N., R. 3 W., about 400 ft. N. of junction of E-W. rd., on W. side of rd., at fence W., in large root on E. side of 48-in. elm tree; copper nail and washer-----

657. 11

Buffalo, 2.5 mi. N. and 1.4 mi. W. from, 300 ft. E. of S $\frac{1}{4}$ cor. sec. 28, T. 17 N., R. 3 W., on N. side of rd., in root on S. side of 20-in. hickory tree; copper nail and washer-----

625. 18

Buffalo, 2.5 mi. N. and 2.5 mi. W. from, 2.5 mi. N. and 0.5 mi. E. from Dawson, 2.0 mi. S. of Buffalo Hart, about 800 ft. E. of N $\frac{1}{4}$ cor. sec. 32, T. 17 N., R. 3 W., 20 ft. S. and 21 ft. E. from T-junction of N-S. rd., in S. head wall of concrete culvert; standard tablet stamped "1 E 1940 606"	Feet
	606. 084
Reference mark, 38 ft. N. of tablet, on N. head wall of concrete culvert; chiseled square	606. 40
Dawson, 1.6 mi. N. of, 0.25 mi. N. of SE. cor. sec. 31, T. 17 N., R. 3 W., on W. side of rd.; at field rd. W., on S. head wall of concrete culvert; chiseled square	597. 48
Dawson, 1.4 mi. N. thence 1.5 mi. W. from, 1.2 mi. E. of Barclay, near quarter corner between secs. 1 and 36, Tps. 16 and 17 N., R. 4 W.; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1905 580"	580. 266
Reference mark, 6 ft. S. of iron post, in root on SW. side of 15-in. boxelder tree; copper nail and washer	580. 21
[Continued in Springfield quadrangle, line 17]	
4. From road junction 1.4 miles north and 1.5 miles west from Dawson generally north along road to point 1.4 miles south of Elkhart (by W. C. Elledge in 1940)	
Dawson, 2.4 mi. N. and 1.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 25, T. 17 N., R. 4 W., 15 ft. N. and 25 ft. W. from crossroads, in root on NE. side of 24-in. tree; copper nail and washer	575. 04
Dawson, 3.9 mi. N. and 1.5 mi. W. from, near center of sec. 24, T. 17 N., R. 4 W., 12 ft. N. and 24 ft. E. from junction of T-rd. W., in root on SW. side of 24-in. hedge tree; copper nail and washer	570. 30
Dawson, 5.4 mi. N. and 1.5 mi. W. from, 1.5 mi. S. and 3.0 mi. E. from Williamsville, near S $\frac{1}{4}$ cor. sec. 12, T. 17 N., R 4 W., in NW. angle of junction of T-rd. W., 6 in. S. and 1 ft. E. from corner of Prairie School, in concrete walk; standard tablet stamped "2 E 1940 592"	591. 613
Reference mark, 95 ft. E. of tablet, on N. side at E. end of walk; chiseled square	590. 97
Williamsville, 1.0 mi. S. thence 3.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 7, T. 17 N., R. 3 W., 200 ft. N. of junction of T-rd. N., on E. side of rd., in root on NW. side of 20-in. elm tree; copper nail and washer	598. 28
Williamsville, 3.5 mi. E. thence 0.2 mi. N. from, about 1,000 ft. N. of E $\frac{1}{4}$ cor. sec. 1, T. 17 N., R. 4 W., 1,000 ft. N. of crossroads, on W. side of rd., at drive to house, on N. head wall of concrete culvert; chiseled square	584. 19
Williamsville, 3.5 mi. E. thence 0.8 mi. N. from, about 800 ft. S. of W $\frac{1}{4}$ cor. sec. 31, T. 18 N., R. 3 W., on E. head wall of concrete culvert; chiseled square	581. 87
Williamsville, 3.5 mi. E. thence 1.7 mi. N. from, 2.8 mi. S. of Elkhart, about 800 ft. N. of SW. cor. sec. 30, T. 18 N., R. 3 W., 800 ft. N. of crossroads, in E. head wall of concrete culvert; standard tablet stamped "3 E 1940 587"	587. 111
Elkhart, 1.8 mi. S. of, 820 ft. N. of SW. cor. sec. 19, T. 18 N., R. 3 W., 820 ft. N. of T-rd. E., on E. head wall of concrete culvert; chiseled square	589. 16

[Continued in Lincoln quadrangle, line 12]

574 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

5. From crossroads 0.5 mile west of Illiopolis along roads alternately south and west to point 0.5 mile south and 4.3 miles east from Mechanicsburg (by W. C. Elledge in 1940)

Illiopolis, 0.5 mi. W. thence 1.1 mi. S. from, near E $\frac{1}{4}$ cor. sec. 13, T. 16 N., R. 2 W., 24 ft. S. and 27 ft. W. from junction of T-rd. W., on concrete right-of-way post; chiseled square	Feet 603.24
Illiopolis, 0.5 mi. W. thence 2.1 mi. S. from, near W. side SW $\frac{1}{4}$ sec. 19, T. 16 N., R. 1 W., on E. side of rd. S., 120 ft. SE. of drive to Riverside Cemetery, in root on N. side of 24-in. oak tree; copper nail and washer	600.41
Illiopolis, 3.0 mi. W. and 2.2 mi. S. from, 0.3 mi. N. and 5.0 mi. E. from Mechanicsburg, about 800 ft. S. of N $\frac{1}{4}$ cor. sec. 27, T. 16 N., R. 2 W., on S. head wall of concrete culvert; chiseled square	592.90
Mechanicsburg, 0.4 mi. S. and 5.0 mi. E. from, 400 ft. N. of S $\frac{1}{4}$ cor. sec. 27, T. 16 N., R. 2 W., 400 ft. N. of T-junction of E.-W. rd., on W. side of rd., in root on NE. side of 30-in. oak tree; copper nail and washer	602.74

6. From point 1.5 miles north and 0.6 mile east from Mount Auburn along roads south and west 2.1 miles, thence east and south to point 1 mile south and 0.5 mile east from Mount Auburn (by W. C. Elledge in 1940)

[Continued from Niantic quadrangle, line 6]

Mount Auburn, 0.5 mi. E. thence 1.0 mi. N. from, near E $\frac{1}{4}$ cor. sec. 1, T. 15 N., R. 2 W., 21 ft. S. and 21 ft. W. from center of rd. at point in line with fence W., on E. edge of catch drain; chiseled square	605.93
Mount Auburn, 3 blocks E. of business district, 21 ft. N. and 18 ft. E. from junction of T-street N. (second street from E.), in E. head wall of concrete culvert; standard tablet stamped "5 E 1940 628"-	628.331

[Continued in Taylorville quadrangle, line 9]

7. From crossroads 2.5 miles north and 1.5 miles west from Illiopolis along roads alternately north and east to point 1.5 miles south and 1.7 miles west from Norita (by W. C. Elledge in 1940)

Illiopolis, 3.8 mi. N. and 1.5 mi. W. from, 0.25 mi. N. of SE. cor. sec. 23, T. 17 N., R. 2 W., 54 ft. S. and 24 ft. W. from center of rd. at point in line with E.-W. fences, in root on E. side of 24-in. elm tree; copper nail and washer	604.94
T. 17 N., R. 2 W., near E $\frac{1}{4}$ cor. sec. 14, 20 ft. S. and 30 ft. W. from junction of E.-W. rd., in concrete post; standard tablet stamped "P T Sta No 7 F 1925"-	608.196
T. 17 N., R. 2 W., 0.25 mi. E. of NW. cor. sec. 13, about 200 ft. S. of section line, 24 ft. S. and 29 ft. E. from junction of private drive E., in root on SW. side of 20-in. wild-cherry tree; copper nail and washer	603.48
T. 17 N., R. 2 W., in NW $\frac{1}{4}$ sec. 12, at NE. pier of steel bridge over Lake Fork Creek, on top of westernmost of two bolts at NE. corner of pier; chiseled cross	583.14
Tps. 17 and 18 N., R. 2 W., near quarter corner between secs. 1 and 36, 3.5 mi. S. and 1.0 mi. E. from Mount Pulaski, 1.5 mi. S. and 2.4 mi. W. from Norita, 22 ft. S. and 3 ft. W. from point in line with rds. N. and W., just inside fence line, in concrete post; standard tablet stamped "P T Sta No 6 F 1925"-	602.964

[Continued in Niantic quadrangle, line 7]

DELAVAN QUADRANGLE

[Latitude $40^{\circ}15'$ - $40^{\circ}30'$; longitude $89^{\circ}30'$ - $89^{\circ}45'$]

LOGAN, MASON, AND TAZEWELL COUNTIES

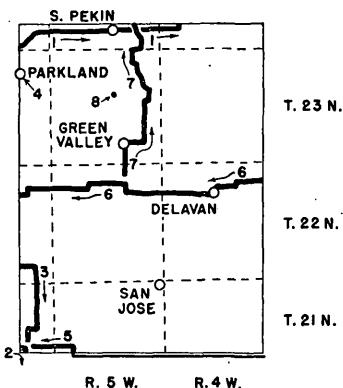


FIGURE 104.—Lines of leveling in Delavan quadrangle.

1. Generally east along roads to point about 6 miles southeast of Pekin
(by Carleton McRae in 1902)

[Continued from Peoria quadrangle, line 4]⁴²

Hawley, 1.2 mi. S. and 0.5 mi. E. from, at iron bridge over small branch, in S. wing of E. abutment; aluminum tablet stamped "511 Peoria"⁴³

Feet
511. 174

[Continued in Peoria quadrangle, line 5]

2. From point 3.6 miles north and 2.9 miles west from Mason City along roads east 0.4 mile, thence south 0.2 mile (by G. W. Moore in 1929)

[Continued from Manito quadrangle, line 5]

Mason City, 3.6 mi. N. thence 2.5 mi. W. from, near probable center of sec. 23, T. 21 N., R. 6 W., 59 ft. S. and 15 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 21 F 1925" (recovered in 1930)

564. 665

Reference mark, about 215 ft. S. of crossroads, at N. abutment of small iron highway bridge, on top of W. parapet; chiseled square

561. 94

[Continued in Mason City quadrangle, line 2]

⁴²This line passes through the southeast corner of Glasford quadrangle and the northeast corner of Manito quadrangle but no permanent marks were set along that portion of the line.

⁴³In 1913 this bench mark was reported destroyed.

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3. From point near northwest corner sec. 35, T. 22 N., R. 6 W., along roads east 0.9 mile, thence generally south to crossroads 3.6 miles north and 2.5 miles west from Mason City (by G. W. Moore in 1929)

[Continued from Manito quadrangle, line 2]

T. 22 N., R. 6 W., near NW. cor. sec. 36, at Leinweber School (District School No. 114), 110 ft. S. and 65 ft. E. from crossroads, on top of N. end of lower concrete foundation step of schoolhouse; chiseled square-----	Feet 512.58
T. 21 N., R. 6 W., near NE. cor. sec. 2, 7.1 mi. N. and 2.0 mi. W. from Mason City, 135 ft. S. of intersection of State Highway 122, 80 ft. S. and 20 ft. W. from N. corner of small concrete bridge, in concrete post; standard tablet stamped "P T Sta No 22 F 1925"-----	510.860
Reference mark, 20 ft. S. and 175 ft. E. from crossroads, on top of W. end of S. head wall of concrete culvert; chiseled square-----	512.27
Mason City, 6.1 mi. N. and 2.0 mi. W. from, near SW. cor. sec. 1, T. 21 N., R. 6 W., 115 ft. N. and 20 ft. E. from junction of T-rd. W., 185 ft. N. of E.-W. fence line, in root on W. side of 38-in. cottonwood tree; copper nail and washer-----	511.50
Mason City, 5.6 mi. N. and 2.0 mi. W. from, near E $\frac{1}{4}$ cor. sec. 11, T. 21 N., R. 6 W., 90 ft. N. and 20 ft. W. from crossroads, in farmyard of H. W. Blessman, in root on SE. side of 26-in. willow tree; copper nail and washer-----	513.75
Mason City, 4.6 mi. N. and 2.0 mi. W. from, near E $\frac{1}{4}$ cor. sec. 14, T. 21 N., R. 6 W., 20 ft. S. and 95 ft. W. from junction of E.-W. rd., in root on NE. side of 42-in. cottonwood tree; copper nail and washer-----	533.63
Mason City, 4.4 mi. N. and 2.5 mi. W. from, about 0.22 mi. S. of center of sec. 14, T. 21 N., R. 6 W., about 0.22 mi. S. of junction of T-rd. S., at NW. corner of iron bridge, on concrete curb; chiseled square-----	528.79
4. Northeast and northwest 0.8 mile in Parkland (by G. W. Moore in 1929)	
[A jog from Manito quadrangle, line 3]	
Parkland, 128 ft. W. of R. R., 80 ft. N. of store, 30 ft. S. of rd., in concrete post; standard tablet stamped "P T Sta No 26 F 1925"-----	472.200
[Continued in Manito quadrangle, line 3]	
5. From point 3.4 miles north of Mason City north 0.2 mile along State Highway 24, thence west 2.5 miles (by M. W. Clark in 1930)	
[Continued from Mason City quadrangle, line 4]	
Mason City, 3.6 mi. N. of, near E $\frac{1}{4}$ cor. sec. 19, T. 21 N., R. 5 W., 25 ft. N. and 30 ft. W. from junction of T-rd. W., about 350 ft. S. of Lake Grove School, in concrete post; standard tablet stamped "P T Sta No 146 F 1925"-----	585.054
Reference mark, 45 ft. S. of tablet, on S. side of rd. W., on concrete head wall of culvert; chiseled square-----	585.78
Mason City, 3.6 mi. N. thence 1.0 mi. W. from, near E $\frac{1}{4}$ cor. sec. 24, T. 21 N., R. 6 W., 135 ft. S. and 20 ft. W. from crossroads, in root on NE. side of 36-in. elm tree; copper nail and washer-----	600.72
Mason City, 3.6 mi. N. thence 2.2 mi. W. from, 0.24 mi. W. of E $\frac{1}{4}$ cor. sec. 23, T. 21 N., R. 6 W., at Reformed Church, on NE. corner of concrete step; chiseled square-----	588.78

6. From point 2.8 miles east of Delavan generally west along State Highway 122 and other roads to point 0.2 mile south and 4.1 miles east from Forest City (by S. R. Archer in 1930)

[Connects with line 2 in Minier quadrangle]

	Feet
Delavan, 2.3 mi. E. of, near SW. cor. sec. 1, T. 22 N., R. 4 W., in NE. angle of junction of T-rd. N., at entrance to Meeker School, on top of E. end of lower concrete step; chiseled square-----	666.25
Delavan, 1.4 mi. E. of, 0.13 mi. E. of NW. cor. sec. 11, T. 22 N., R. 4 W., 0.13 mi. E. of crossroads, 190 ft. W. of farmhouse on S. side of highway, 125 ft. W. of driveway, on S. side of rd., in field, in root on NW. side of 30-in. maple tree; copper nail and washer-----	649.00
Delavan, in NE. part of, 0.25 mi. N. of center of sec. 10, T. 22 N., R. 4 W., 365 ft. W. of Junction of T-rd. N. and street S., 25 ft. S. and 20 ft. E. from junction of T-street S., in root on NW. side of 24-in. maple tree; copper nail and washer-----	616.81
Delavan, at Chicago & Alton R. R. stone bridge over creek, 200 ft. N. of street crossing, at E. side of N. end of bridge, on top of coping stone; chiseled square-----	600.78
Delavan 50 ft. N. and 60 ft. W. from NW. corner of grade school, 30 ft. E. of Main Street, in line with maple trees at W. edge of school grounds, in concrete post; standard tablet stamped "P T Sta No 139 F 1925"-----	608.480
Delavan, on E. side of Main Street, at main entrance to Public Library, on top of S. end of lower step; chiseled square-----	617.72
Delavan, at W. edge of, near center of sec. 9, T. 22 N., R. 4 W., 135 ft. SW. of crossing of Illinois Central R. R., on N. side of highway, opposite street E., on top of N. end of E. head wall of concrete culvert under driveway to gasoline tanks; chiseled square-----	588.94
Delavan, 1.3 mi. W. of, 320 ft. W. of E $\frac{1}{4}$ cor. sec. 8, T. 22 N., R. 4 W., 320 ft. W. of junction of T-rd. S., at concrete highway bridge, on top of N. parapet of W. abutment; chiseled square-----	559.90
Delavan, 2.2 mi. W. of, near E $\frac{1}{4}$ cor. sec. 7, T. 22 N., R. 4 W., in SW. angle of crossroads, at entrance to Home School, on NE. corner of concrete porch; chiseled square-----	552.85
Delavan, 3.2 mi. W. of, 2.5 mi. S. thence 2.0 mi. E. from Green Valley, near E $\frac{1}{4}$ cor. sec. 12, T. 22 N., R. 5 W., 25 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "P T Sta No 140 F 1925"-----	531.820
Reference mark, 30 ft. E. of crossroads, on top of E. end of S. head wall of concrete culvert; chiseled square-----	533.40
Green Valley, 2.5 mi. S. thence 1.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 12, T. 22 N., R. 5 W., in SE. corner of junction of T-rd. S.; on top of E. head wall of concrete culvert-----	525.15
Green Valley, 2.5 mi. S. thence 0.8 mi. E. from, 0.17 mi. W. of E $\frac{1}{4}$ cor. sec. 11, T. 22 N., R. 5 W., at concrete highway bridge over drainage ditch, on top of bridge end of S. wing wall of W. abutment; chiseled square "-----	526.00
Green Valley, 2.5 mi. S. thence 0.5 mi. E. from, at crossing of C. & A. R. R. and State Highway 122; top of W. rail-----	528.6

* In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "J 37 1934," elevation 525.834 ft.

578 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Green Valley, 2.5 mi. S. of, near W $\frac{1}{4}$ cor. sec. 11, T. 22 N., R. 5 W., 150 ft. N. of crossroads, at N. corner of triangle of rds., on E. side of rd. N., on top of E. end of S. angular section of head wall of concrete culvert; chiseled square ⁴⁶	524.90
Green Valley, 2.0 mi. S. of, near NE. cor. sec. 10, T. 22 N., R. 5 W., 30 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "P T Sta No 141 F 1925"	526.342
Reference mark, in NE. corner of crossroads, on top of E. end of N. head wall of concrete culvert under rd. E.; chiseled square	527.48
Green Valley, 2.0 mi. S. thence 0.5 mi. W. from, at crossing of Chicago & North Western Ry.; top of W. rail	530.2
Green Valley, 2.0 mi. S. thence 1.0 mi. W. from, near SE. cor. sec 4, T. 22 N., R. 5 W., 130 ft. W. of crossroads, on N. side of rd., in fence line, in root on S. side of 12-in. boxelder tree; copper nail and washer	529.28
Green Valley, 2.0 mi. S. thence 2.0 mi. W. from, near NW. cor. sec. 9, T. 22 N., R. 5 W., 45 ft. S. of right angle in rd., on E. side of rd. S., in root on SW. side of 24-in. walnut tree; copper nail and washer	530.47
T. 22 N., R. 5 W., near center of NW $\frac{1}{4}$ sec. 8, 35 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 142 F 1925"	534.824
Reference mark, in NW. corner of crossroads, at SE. corner of yard of farmhouse, in root on N. side of 24-in. boxelder tree; copper nail and washer	531.75
T. 22 N., R. 5 W., 0.25 mi. S. of NW. cor. sec. 7, at offset crossroads, 45 ft. S. and 30 ft. E. from junction of rd. E., in yard of farmhouse, in root on W. side of 24-in. hackberry tree; copper nail and washer	515.06
T. 22 N., R. 6 W., 0.25 mi. S. of NE. cor. sec. 11, in NW. corner of crossroads, opposite St. Paul's Church, 3 ft. N. of fence corner, on E. side of fence N., in root on E. side of 24-in. maple tree; copper nail and washer	508.23
T. 22 N., R. 6 W., 0.25 mi. N. of center of sec. 11, 0.2 mi. S. and 4.5 mi. E. from Forest City, at Allbright Church, in NE. angle of rd. junction, on top of W. end of lower concrete step at entrance to church; chiseled square	509.92

[Continued in Manitowoc quadrangle, line 6]

7. From crossroads 2 miles south of Green Valley generally north along State Highway 24 and other roads to point 0.9 mile south and 0.6 mile east from Hawley (by S. R. Archer in 1930)

Green Valley, 1.0 mi. S. of, near N. cor. secs. 2 and 3, T. 22 N., R. 5 W., at offset crossroads, 30 ft. W. of center line of rd. S., 200 ft. E. of center line of rd. N., on N. side of triangle between rds., on top of E. end of S. head wall of concrete culvert under rd. E.; chiseled square	530.70
Green Valley, in center of intersection of State Highway 24 and main E.-W. street, at cor. secs. 26, 27, 34, and 35, T. 23 N., R. 5 W.; top of copper bolt marking section corner ⁴⁷	535.96

⁴⁶ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "J 37 1934," elevation 525.334 ft.

⁴⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "L 37 1934," elevation 540.425 ft.

	Feet
Green Valley, 240 ft. W. of intersection of Illinois Central R. R. and main E.-W. street, in SE. angle of junction of T-street S., at W. side of entrance to brick store building, at foot of W. side of iron column, on top of E. end of stone windowsill; chiseled square	537. 84
Green Valley, 0.5 mi. E. of, at intersection of Chicago & Alton R. R.; top of W. rail of main track	539. 5
Green Valley, 1.0 mi. E. of, near NE. cor. sec. 35, T. 23 N., R. 5 W., 28 ft. S. and 35 ft. W. from crossroads, 7 ft. S. and 14 ft. W. from NE. corner of yard of farmhouse, in root on N. side of 15-in. maple tree; copper nail and washer	536. 38
Green Valley, 1.0 mi. E. thence 1.0 mi. N. from, near SE. cor. sec. 23, T. 23 N., R. 5 W., at crossroads, 40 ft. N. and 20 ft. W. from junction of rd. N., 20 ft. N. of fence corner, in concrete post; standard tablet stamped "6 A 1930"	539. 537
Reference mark, in SE. corner of crossroads, near fence corner, in center of blazed triangle, 2.5 ft. above ground, on N. side of hedge tree; copper nail and washer	543. 39
Green Valley, 1.0 mi. E. thence 1.5 mi. N. from, near W $\frac{1}{4}$ cor. sec. 24, T. 23 N., R. 5 W., at foot of hill, in SE. angle of junction of private rd. E., in root on W. side of 36-in. cottonwood tree; copper nail and washer	504. 28
Green Valley, 1.0 mi. E. thence 2.4 mi. N. from, about 310 ft. W. of center of SW $\frac{1}{4}$ sec. 13, T. 23 N., R. 5 W., 15 ft. S. and 20 ft. W. from junction of T-rd. N., in fence line, in root on NE. side of 14-in. hackberry tree; copper nail and washer	499. 67
Green Valley, 1.0 mi. E. thence 3.2 mi. N. from, about 0.2 mi. W. of N $\frac{1}{4}$ cor. sec. 13, T. 23 N., R. 5 W., at old rd. crossing Mackinaw River, near E. end of loop in river to N., on N. bank, opposite camp, about 700 ft. E. of sawmill and right-angle bend in field rd., in root on W. side of 30-in. maple tree with triangular blaze; copper nail and washer	497. 15
Green Valley, 1.0 mi. E. thence 3.5 mi. N. from, in SW $\frac{1}{4}$ sec. 12, T. 23 N., R. 5 W., in Mackinaw River bottom, at point where old rd. angles from NW. to N., on W. side of rd., 40 ft. SE. of SE. corner of small cottage, in root on E. side of 24-in. oak tree; copper nail and washer	507. 78
Green Valley, 1.0 mi. E. thence 4.8 mi. N. from, 1.7 mi. S. and 1.1 mi. E. from South Pekin, near center of SE $\frac{1}{4}$ sec. 2, T. 23 N., R. 5 W., 30 ft. S. and 18 ft. E. from junction of E.-W. rd., 10 ft. S. of fence corner, in concrete post; standard tablet stamped "17 A 1930"	532. 645
Reference mark, 25 ft. E. of rd. junction, on top of W. end of S. head wall of concrete culvert; chiseled square	533. 68
South Pekin, 1.7 mi. S. and 0.9 mi. E. from, 0.25 mi. S. of center of sec. 2, T. 23 N., R. 5 W., 75 ft. N. of junction of N.-S. rd., on W. side of C. & A. R. R., on top of N. end of E. head wall of concrete culvert under highway; chiseled square	521. 41
South Pekin, 1.0 mi. S. and 0.9 mi. E. from, near S $\frac{1}{4}$ cor. sec. 35, T. 24 N., R. 5 W., 75 ft. W. of C. & A. R. R., 30 ft. W. of junction of E.-W. rd., on N. side of rd. W., on concrete bridge, 12 ft. W. of E. end of N. head wall; chiseled square ⁴⁷	511. 41

⁴⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 37 1934," elevation 511.416 ft.

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South Pekin, 1.0 mi. S. and 1.4 mi. E. from, near SE. cor. sec. 35, T. 24 N., R. 5 W., 40 ft. N; and 35 ft. W. from junction of T-rd. N., in orchard, in root on W. side of 24-in. maple tree; copper nail and washer-----	<i>Feet</i> 527.85
South Pekin, 1.2 mi. E. thence 0.3 mi. SE. from, 0.6 mi. E. thence 1.6 mi. SE. from Hawley, about 0.2 mi. S. of NE. cor. sec. 35, T. 24 N., R 5 W., about 0.2 mi. SE. of crossroads, at highway bridge over Lost Creek, on top of W. end of N. concrete abutment; chiseled square -----	521.56

[Continued in Peoria quadrangle, line 17]

8. Isolated bench mark on Mackinaw River 2.7 miles north and 0.5 mile west from Green Valley

Green Valley, 2.7 mi. N. and 0.5 mi. W. from, about 250 ft. E. of highway bridge over Mackinaw River, at Chicago & North Western Ry. bridge, at river gage sta., on SW. corner of N. concrete pier; chiseled square (B. M. 2 of gaging sta.; established by water-resources branch; elevation determined by U. S. C. & G. S.)-----	489.845
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DIVERNON QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $89^{\circ}30'$ – $89^{\circ}45'$]

CHRISTIAN, MACOUPIN, MONTGOMERY, AND SANGAMON COUNTIES

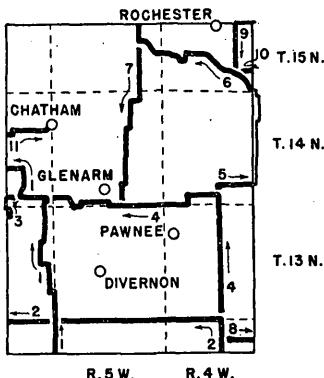


FIGURE 105.—Lines of leveling in Divernon quadrangle.

1. From point 1.6 miles south of corner of Macoupin, Montgomery, and Sangamon Counties along roads north and west to point 2.7 miles southwest thence 1.4 miles west from Chatham (by S. R. Archer in 1922)

[Continued from Raymond quadrangle, line 1]

Farmersville, 2.6 mi. W. and 4.5 mi. N. from, 2.5 mi. W. and 4.0 mi. S. from Divernon, near W. cor. secs. 6 and 7, T. 12 N., R. 5 W., on E. side of rd., in fence corner, in root on SW. side of 12-in. hedge tree; copper nail and washer	Feet 647.12
Divernon, 2.5 mi. W. and 3.0 mi. S. from, 1.4 mi. N. thence 3.5 mi. E. from Virden, near SW. cor. sec. 31, T. 13 N., R. 5 W., near corner of Macoupin, Montgomery, and Sangamon Counties, 40 ft. N. and 20 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 6 S 1922 15 A"	633.295
Reference mark, at SE. corner of crossroads, on top of S. head wall of concrete culvert under rd. E.; chiseled square	631.58
Divernon, 2.5 mi. W. and 2.0 mi. S. from, near NW. cor. sec. 31, T. 13 N., R. 5 W., in SE angle of junction of T-rd. E., in root on SW. side of 24-in. hedge tree; copper nail and washer	627.91
Divernon, 2.7 mi. W. thence 1.5 mi. S. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 25, T. 13 N., R. 6 W., 190 ft. N. of junction of T-rd. N., on E. side of rd., inside fence, in root on W. side of forked hackberry tree; copper nail and washer	628.53
Divernon, 2.7 mi. W. thence 0.9 mi. S. from, about 500 ft. N. of center of S. side SE $\frac{1}{4}$ sec. 24, T. 13 N., R. 6 W., 500 ft. N. of crossroads, 40 ft. N. of stream crossing, on W. side of rd., in fence line, in root 3 in. underground on E. side of forked hackberry tree; copper nail and washer	614.29
Divernon, 2.7 mi. W. of, 1.7 mi. S. thence 2.0 mi. E. from Auburn, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 6 W., 30 ft. N. of T-junction of E.-W. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 7 S 1922 30 A"	619.878

Reference mark, in SW. angle of junction of T-rd. S., 15 ft. S. of fence corner, in root on E. side of 24-in. hackberry tree; copper nail and washer-----	<i>Feet</i> 618.75
Auburn, 1.2 mi. S. and 1.5 mi. E. from, 0.25 mi. W. of center of sec. 13, T. 13 N., R. 6 W., on E. side of rd., 100 ft. N. of T-rd. E., in front of Patton School, on top of NW. corner of concrete carriage platform; chiseled square-----	622.07
Auburn, 1.8 mi. E. thence 0.9 mi. S. from, about 800 ft. N. of S $\frac{1}{4}$ cor. sec. 12, T. 13 N., R. 6 W., 60 ft. N. of right-angle turn N. in rd., on W. side of rd., in root on W. side of 12-in. walnut tree; copper nail and washer-----	623.82
Auburn, 1.8 mi. E. of, near S $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 6 W., 200 ft. N. of junction of T-rd. W., on E. side of rd., in root on SW. side of 15-in. walnut tree; copper nail and washer-----	621.78
Auburn, 1.8 mi. E. thence 1.0 mi. N. from, near N $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 6 W., 100 ft. SE. of junction of T-rd. W., on E. side of rd., near NW. corner of yard of residence, 4 ft. SW. of 30-in. oak tree, in root on N. side of 15-in. maple tree; copper nail and washer-----	604.98
Auburn, 2.0 mi. E. and 1.3 mi. N. from, 4.0 mi. by rd. S. of Chatham, near center of SE $\frac{1}{4}$ sec. 36, T. 14 N., R. 6 W., 25 ft. S. of junction of T-rd. N., at Union School, in NE. corner of yard, in concrete post; aluminum tablet stamped "Prim Trav Sta No 8 S 1922 31 A"-----	602.963
Reference mark, 160 ft. W. of rd. junction, on top of W. end of S. head wall of concrete culvert; chiseled square-----	597.60
Auburn, 1.3 mi. E. and 1.3 mi. N. from, 190 ft. E. of W $\frac{1}{4}$ cor. sec. 36, T. 14 N., R. 6 W., 450 ft. W. of house on S. side of rd., on top of S. head wall of concrete culvert; chiseled square-----	611.63
Auburn, 0.5 mi. E. and 1.3 mi. N. from, 4.7 mi. SW. of Chatham, 400 ft. W. of center of S. side of NW $\frac{1}{4}$ sec. 35, T. 14 N., R. 6 W., 400 ft. W. of T-rd. N., on top of N. head wall of concrete culvert under State Highway 4; chiseled square-----	613.14
Chatham, 4.0 mi. SW. of, 0.4 mi. W. of Irwins Park, 500 ft. N. of S $\frac{1}{4}$ cor. sec. 26, T. 14 N., R. 6 W., on top of parapet at NE. corner of concrete bridge; chiseled square ⁴⁸ -----	599.60
Chatham, 2.7 mi. SW. of, near S $\frac{1}{4}$ cor. sec. 23, T. 14 N., R. 6 W., 20 ft. N. and 20 ft. W. from right-angle turn in highway and junction of rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 9 S 1922 37 A"-----	616.033
Reference mark, 20 ft. N. of rd. junction, on E. side of private rd. N., in fence line, 4 ft. E. of fence corner, in root on S. side of 12-in. hedge tree; copper nail and washer-----	616.49

[Continued in Waverly quadrangle, line 2]

2. From point 1.6 miles south of corner of Christian, Montgomery, and Sangamon Counties along roads north 1.6 miles, thence west to point 1.4 miles north and 0.9 mile east from Virden (by S. R. Archer in 1922)

[Continued from Raymond quadrangle, line 2]

Zenobia, 1.2 mi. S. of, near NE. cor. sec. 9, T. 12 N., R. 4 W., in SW. angle of crossroads, in front of main entrance to Zenobia Church, on top of middle concrete carriage step; chiseled square-----	624.32
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⁴⁸ In 1929 this bench mark was tied to U. S. C. & G. S. standard disk stamped "T 95 1935," elevation 614.008 ft.

	Feet
Zenobia, 0.2 mi. S. of, 2.5 mi. E. thence 4.5 mi. S. from Pawnee, at corner of Christian, Montgomery, and Sangamon Counties, near SW. cor. sec. 34, T. 13 N., R. 4 W., at offset crossroads, 50 ft. E. of rd. N., 25 ft. N. of rd. S., in concrete post; aluminum tablet stamped "Prim Trav Sta No 14 S 1922 22 A"-----	613. 237
Reference mark, 230 ft. W. of SE. cor. sec. 33, T. 13 N., R. 4 W., on N. side of rd., at fence line, 45 ft. E. of 24-in. locust tree, in SW. side of 20-in. locust tree; copper nail and washer-----	614. 25
Pawnee, 1.5 mi. E. and 4.5 mi. S. from, near NW. cor. sec. 4, T. 12 N., R. 4 W., in SE. corner of crossroads, on top of N. end of E. head wall of concrete culvert under road S.; chiseled square-----	613. 61
Pawnee, 0.5 mi. E. thence 4.5 mi. S. from, 1.0 mi. N. of Whiteoak, near NW. cor. sec. 5, T. 12 N., R. 4 W., in SE. angle of crossroads, in root on NE. side of 15-in. hedge tree; copper nail and washer-----	620. 34
Pawnee, 0.5 mi. W. thence 4.5 mi. S. from, 2.5 mi. S. and 3.5 mi. E. from Divernon, near SE. cor. sec. 36, T. 13 N., R. 5 W., 20 ft. N. and 35 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 13 S 1922 23 A"-----	638. 887
Reference mark, 110 ft. W. of crossroads, on S. side of rd., in root on N. side of four-forked maple tree; copper nail and washer-----	638. 63
Divernon, 2.5 mi. S. and 2.4 mi. E. from, 440 ft. W. of NE. cor. sec. 2, T. 12 N., R. 5 W., 440 ft. W. of junction of T-rd. S., on S. side of rd., on E. bank of stream, in root on NW. side of northernmost of two 24-in. sycamore trees standing together; copper nail and washer-----	602. 58
Divernon, 2.5 mi. S. and 1.5 mi. E. from, near SW. cor. sec. 35, T. 13 N., R. 5 W., in NE. angle of junction of T-rd. N., in bent trunk on W. side of 10-in. hedge tree used as corner fence post; copper nail and washer-----	630. 22
Divernon, 2.5 mi. S. and 0.5 mi. E. from, near NW. cor. sec. 3, T. 12 N., R. 5 W., 20 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 12 S 1922 24 A" ⁴⁰ -----	639. 228
Reference mark, 50 ft. S. and 45 ft. W. from crossroads, in field, in root on N. side of 24-in. maple tree; copper nail and washer-----	639. 66
Divernon, 2.5 mi. S. and 0.5 mi. W. from, near NW. cor. sec. 4, T. 12 N., R. 5 W., at SE. corner of crossroads, at SE. concrete head wall of drain pipe running diagonally across crossroads, on top of pipe at angle directly over opening; chiseled square-----	637. 12
Divernon, 2.5 mi. S. and 1.7 mi. W. from, 1.4 mi. N. thence 4.3 mi. E. from Virden, near N. side NE $\frac{1}{4}$ sec. 6, T. 12 N., R. 5 W., 715 ft. W. of crossroads, on S. side of rd., 90 ft. E. of house, 45 ft. E. of NE. corner of yard, on E. side of driveway to barn, in root on NE. side of 36-in. maple tree; copper nail and washer-----	636. 19
Virden, 1.4 mi. N. thence 2.4 mi. E. from, 0.25 mi. W. of NE. cor. sec. 2, T. 12 N., R. 6 W., 25 ft. S. and 40 ft. E. from junction of T-rd. N., in root on W. side of 6-in. walnut tree; copper nail and washer-----	637. 92

⁴⁰ In 1929 this bench mark was moved 62 ft. west of this position and reset at an elevation 0.064 ft. lower than that originally determined. The figures given represent the new elevation.

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	Feet
Virden, 1.4 mi. N. thence 1.9 mi. E. from, 0.25 mi. E. of NW. cor. sec. 2, T. 12 N., R. 6 W., in SW. angle of junction of T-rd. S., at fence corner, in root on NW. side of 24-in. hedge tree; copper nail and washer-----	644. 41
Virden, 1.4 mi. N. thence 1.4 mi. E. from, 0.25 mi. W. of NE. cor. sec. 3, T. 12 N., R. 6 W., 20 ft. S. and 70 ft. E. from junction of T-rd. N., in root on S. side of 30-in. elm tree; copper nail and washer-----	647. 47
[Continued in Waverly quadrangle, line 3]	
3. From point 0.7 mile north of Auburn north and east along State Highway 4 to road junction 4.7 miles southwest of Chatham (by S. R. Archer in 1922)	
[Continued from Waverly quadrangle, line 3]	
Auburn, 0.7 mi. N. of, near center of sec. 3, T. 13 N., R. 6 W., 50 ft. N. and 20 ft. W. from junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 34 S 1922 29 A"-----	625. 036
Reference mark, in SW. angle of junction of highway, on top of S. head wall of concrete culvert under rd. W.; chiseled square-----	625. 68
Auburn, 1.7 mi. N. of, 5.4 mi. SW. of Chatham, near center of sec. 34, T. 14 N., R. 6 W., 20 ft. N. and 30 ft. E. from crossroads, in root on SE. side of 24-in. boxelder tree; copper nail and washer-----	620. 10
4. From corner of Christian, Montgomery, and Sangamon Counties along roads north 6.5 miles, thence generally west to road junction 2 miles east and 1.3 miles north from Auburn (by S. R. Archer in 1922)	
Zenobia, 0.8 mi. N. of, near SE. cor. sec. 28, T. 13 N., R. 4 W., near Lynndora School, 80 ft. N. and 20 ft. W. from crossroads, at fence line, in root on E. side of 24-in. cottonwood tree; copper nail and washer-----	603. 78
Zenobia, 1.8 mi. N. of, near NW. cor. sec. 27, T. 13 N., R. 4 W., 40 ft. S. and 20 ft. E. from crossroads, in fence line, in root on W. side of 12-in. hedge tree; copper nail and washer-----	608. 93
Zenobia, 2.8 mi. N. of, 2.5 mi. E. thence 1.5 mi. S. from Pawnee, near SE. cor. sec. 16, T. 13 N., R. 4 W., 60 ft. N. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 35 S 1922 36 A"-----	603. 892
Reference mark, in NW. angle of crossroads, at Hopewell School, on NE. corner of concrete well platform; chiseled square-----	604. 11
Pawnee, 2.5 mi. E. thence 0.5 mi. S. from, near W. cor. secs. 10 and 15, T. 13 N., R. 4 W., on E. side of rd., opposite rd. W., in root on E. side of triple-forked locust tree; copper nail and washer-----	595. 72
Pawnee, 2.5 mi. E. thence 0.5 mi. N. from, near NW. cor. sec. 10, T. 13 N., R. 4 W., 60 ft. E. of crossroads, on S. side of rd. E., in root on NW. side of 12-in. cherry tree; copper nail and washer-----	592. 38
Pawnee, 2.5 mi. E. thence 1.5 mi. N. from, near SE. cor. sec. 33, T. 14 N., R. 4 W., 40 ft. N. and 25 ft. W. from junction of T-rd. E., in concrete post; aluminum tablet stamped "Prim Trav Sta No 36 S 1922 35 A"-----	607. 132
Pawnee, 2.5 mi. E. thence 2.0 mi. N. from, 230 ft. S. of W $\frac{1}{4}$ cor. sec. 34, T. 14 N., R. 4 W., 230 ft. S. of junction of T-rd. W., on E. side of rd., in fence line, in root on W. side of 8-in. hedge tree; copper nail and washer-----	598. 88

	Feet
Pawnee, 1.5 mi. E. and 2.0 mi. N. from, 280 ft. E. of W $\frac{1}{4}$ cor. sec. 33, T. 14 N., R. 4 W., on S. side of rd., in front of house, in root on N. side of 36-in. elm tree; copper nail and washer-----	606.97
Pawnee, 0.7 mi. E. thence 2.0 mi. N. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 32, T. 14 N., R. 4 W., 435 ft. W. of junction of T-rd. N., 35 ft. S. and 45 ft. W. from right-angle bend S. in rd., in field, in root on E. side of 24-in. walnut tree; copper nail and washer-----	598.05
Pawnee, 0.7 mi. E. thence 1.5 mi. N. from, 0.25 mi. E. of W. cor. secs. 5 and 32, Tps. 13 and 14 N., R 4 W., 15 ft. E. of junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 37 S 1922 34 A"-----	586.101
Reference mark, 50 ft. S. and 20 ft. E. from rd. junction, in E. fence line, in root 3 in. underground on W. side of 8-in. elm tree; copper nail and washer-----	587.05
Pawnee, 1.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 6, T. 13 N., R. 4 W., in SE. angle of crossroads, in root on N. side of 24-in. locust tree; copper nail and washer-----	601.09
Pawnee, 1.5 mi. N. and 0.6 mi. W. from, 420 ft. W. of NE. cor. sec. 1, T. 13 N., R. 5 W., 420 ft. W. of T-rd. S., on S. side of rd., in root on NW. side of 36-in. cottonwood tree; copper nail and washer-----	599.38
Pawnee, 1.5 mi. N. and 1.7 mi. W. from, 0.25 mi. W. of SE. cor. sec. 35, T. 14 N., R. 5 W., in NW. angle of junction of T-rd. N., in fence corner, in root on S. side of 30-in. hackberry tree; copper nail and washer-----	601.96
Pawnee, 1.5 mi. N. and 2.8 mi. W. from, 0.8 mi. S. thence 0.8 mi. E. from Glenarm, 0.25 mi. W. of NE. cor. sec. 3, T. 13 N., R. 5 W., 15 ft. S. of junction of T-rd. N., in concrete post; aluminum tablet stamped "Prim Trav Sta No 38 S 1922 33 A"-----	600.707
Glenarm, 0.8 mi. S. thence 0.6 mi. E. from, near N $\frac{1}{4}$ cor. sec. 3, T. 13 N., R. 5 W., 140 ft. E. of T-rd. S., on S. side of rd., in root on NW. side of 36-in. elm tree; copper nail and washer-----	604.65
Glenarm, 0.8 mi. S. of, 0.5 mi. E. thence 3.0 mi. N. from Divernon, near NE. cor. sec. 4, T. 13 N., R. 5 W., 45 ft. S. and 60 ft. E. from junction of rd. N., 45 ft. S. and 45 ft. W. from junction of rd. S., in field, in root on SW. side of 30-in. cottonwood tree; copper nail and washer-----	603.20
Glenarm, 0.6 mi. S. thence 1.0 mi. W. from, 0.25 mi. N. of SE. cor. sec. 32, T. 14 N., R. 5 W., 50 ft. W. of section line crossing, on S. side of rd., in field, in root on W. side of 24-in. hickory tree; copper nail and washer-----	597.68
Glenarm, 0.8 mi. S. and 1.4 mil. from, 1.0 mi. W. and 3.0 mi. N. from Divernon, 0.3 mi. E. of Nuckolls School, near N $\frac{1}{4}$ cor. sec. 5, T. 13 N., R. 5 W., 20 ft. S. of junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 39 S 1922 32 A"-----	581.937
Divernon, 1.5 mi. W. and 3.0 mi. N. from, near SW. cor. sec. 32, T. 14 N., R. 5 W., 200 ft. E. of T-rd. N., at drain crossing, on N. side of rd., on E. bank of drain, in fence line, in root on NE. side of 12-in. elm tree; copper nail and washer-----	588.13
Divernon, 1.5 mi. W. and 3.5 mi. N. from, near W $\frac{1}{4}$ cor. sec. 32, T. 14 N., R. 5 W., 25 ft. S. and 20 ft. E. from junction of T-rd. W., on S. side of driveway to house, in root on NW. side of 24-in. oak tree; copper nail and washer-----	590.00

Divernon, 2.4 mi. W. and 3.5 mi. N. from, 3.9 mi. in air line S. of Chatham, about 750 ft. E. of W $\frac{1}{4}$ cor. sec. 31, T. 14 N., R. 5 W., 50 ft. E. of right-angle bend S. in rd., on S. side of rd., in fence line, in root on NW. side of 8-in. cherry tree; copper nail and washer-----	Feet 617.33
5. From road junction 2.5 miles east and 2 miles north from Pawnee along roads north 0.5 mile, thence east 1.8 miles (by S. R. Archer in 1922).-----	
Pawnee, 3.5 mi. E. and 2.5 mi. N. from, near S. cor. secs. 26 and 27, T. 14 N., R. 4 W., on N. side of rd., at section-line fence N., 4 ft. S. of corner of fence E., 10 ft. N. of corner of fence W., in root on NW. side of southernmost of cluster of small locust trees; copper nail and washer-----	597.30
[Continued in Taylorville quadrangle, line 1]	
6. From point 2.9 miles west and 0.5 mile south from Breckenridge generally northwest along roads to point 3.5 miles south and 1.7 miles east from Springfield (by S. R. Archer in 1922).-----	
[Continued from Taylorville quadrangle, line 1]	
Breckenridge, 3.0 mi. W. and 0.5 mi. S. from, 4.8 mi. SE. of Rochester, 0.2 mi. W. of NE. cor. sec. 2, T. 14 N., R. 4 W., 45 ft. S. and 115 ft. W. from junction of rd. NW., in front of South Fork Church, at E. end of concrete walk to main entrance, on top of NE. corner of concrete carriage platform; chiseled square-----	582.77
Rochester, 4.0 mi. SE. of, 0.2 mi. N. of center of sec. 35, T. 15 N., R. 4 W., 80 ft. SE. and 25 ft. S. from junction of rd. N., at Bell School, 50 ft. SE. of NW. corner of schoolyard, in root on E. side of 15-in. oak tree; copper nail and washer-----	582.29
Rochester, 3.4 mi. SE. of, near SE. cor. sec. 27, T. 15 N., R. 4 W., 20 ft. N. and 40 ft. W. from junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 42 S 1922 54 A" (recovered in 1936)-----	582.374
Rochester, 2.8 mi. SE. of, near N $\frac{1}{4}$ cor. sec. 34, T. 15 N., R. 4 W., 40 ft. S. and 100 ft. W. from junction of T-rd. S., in field, in root on NW. side of 24-in. hickory tree; copper nail and washer-----	585.89
Rochester, 2.5 mi. S. of, S. of center of SW $\frac{1}{4}$ sec. 27, T. 15 N., R. 4 W., in NW. angle of junction of T-rd. N., in root on S. side of 6-in. elm tree; copper nail and washer-----	583.82
Rochester, 1.5 mi. S. and 0.7 mi. W. from, 0.25 mi. E. of NW. cor. sec. 28, T. 15 N., R. 4 W., 25 ft. S. and 90 ft. E. from crossroads, in field, in root on N. side of 6-in. mulberry tree; copper nail and washer-----	578.80
Rochester, 1.5 mi. S. and 1.2 mi. W. from, 0.25 mi. W. of NE. cor. sec. 29, T. 15 N., R. 4 W., at bridge over South Fork of Sangamon River, at W. end of E. approach, on top of S. end of E. abutment of main span; chiseled square-----	544.48
Rochester, 2.0 mi. S. and 1.7 mi. W. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 29, T. 15 N., R. 4 W., on E. side of N-S. rd., in line with center line of rd. W., in concrete post; aluminum tablet stamped "55 A 1922"-----	564.360
Reference mark, 20 ft. S. and 115 ft. W. from junction of T-rd. W., at fence line, in root on N. side of 12-in. elm tree; copper nail and washer-----	572.38

	Feet
Rochester, 1.7 mi. S. and 2.5 mi. W. from, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 30, T. 15 N., R. 4 W., at SE. corner of junction of T-rd. E., on top of E. end of right-angular concrete head wall of culvert; chiseled square-----	577.68
Rochester, 1.6 mi. S. and 3.2 mi. W. from, N. of center of NE $\frac{1}{4}$ sec. 25, T. 15 N., R. 5 W., in SW corner of junction of T-rd. S., on top of W. concrete head wall of tile drain; chiseled square-----	551.87
Rochester, 1.0 mi. S. and 3.8 mi. W. from, 0.25 mi. E. of W $\frac{1}{4}$ sec. 24, T. 15 N., R. 5 W., at angle SE. in rd., 140 ft. NW. of drain crossing, in root on NE. side of 24-in. elm tree; copper nail and washer-----	559.02
Rochester, 1.0 mi. S. and 4.3 mi. W. from, 4.5 mi. S. and 1.7 mi. E. from Springfield, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 23, T. 15 N., R. 5 W., on W. side of N-S. rd., in line with rd. E.; standard iron post with bronze cap stamped "56 A 1922"-----	587.301
Springfield, 4.0 mi. S. and 1.7 mi. E. from, 0.25 mi. W. of NE. cor. sec. 23, T. 15 N., R. 5 W., 90 ft. S. of junction of T-rd. W., at NE. corner of junction of T-rd. E., on top of N. head wall of concrete culvert under rd. E.; chiseled square-----	582.90
[Continued in Springfield quadrangle, line 7]	
7. From road junction 4.5 miles south and 1.7 miles east from Springfield alternately south and west along roads to road junction 0.8 mile south and 0.8 mile east from Glenarm (by S. R. Archer in 1922)	
Springfield, 5.5 mi. S. and 1.7 mi. E. from, 0.25 mi. E. of center of sec. 26, T. 15 N., R. 5 W., 80 ft. S. and 25 ft. W. from junction of T-rd. E., 40 ft. N. and 25 ft. W. from bridge, inside fence, in root on E. side of triple-forked elm tree; copper nail and washer-----	574.09
Springfield, 6.0 mi. S. and 1.7 mi. E. from, 0.8 mi. E. of Toronto, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 35, T. 15 N., R. 5 W., 120 ft. S. and 20 ft. E. from junction of T-rd. W., inside fence, in root on W. side of small double elm tree; copper nail and washer-----	584.34
Springfield, 7.0 mi. S. and 1.7 mi. E. from, 0.25 mi. W. of SE. cor. sec. 35, T. 15 N., R. 5 W., 20 ft. N. and 65 ft. E. from junction of private rd. E., 10 ft. N. and 35 ft. E. from fence corner, in field, in root on S. side of 24-in. elm tree; copper nail and washer-----	543.86
Springfield, 7.5 mi. S. and 1.7 mi. E. from, 0.9 mi. SE. of Cotton Hill, 0.25 mi. E. of center of sec. 2, T. 14 N., R. 5 W., 20 ft. S. and 30 ft. W. from right-angle turn W. in rd. and junction of private rd. S., 10 ft. W. of fence corner, in concrete post; aluminum tablet stamped "57 A 1922"-----	589.027
Cotton Hill, 0.4 mi. SE. thence 1.5 mi. S. from, 0.25 mi. E. of NW. cor. sec. 14, T. 14 N., R. 5 W., 40 ft. S. and 15 ft. E. from junction of T-rd. N., in NW. corner of yard of residence, in root on NW. side of 30-in. maple tree; copper nail and washer-----	597.50
Cotton Hill, 0.4 mi. SE. thence 3.2 mi. S. from, 500 ft. N. of W $\frac{1}{4}$ cor. sec. 23, T. 14 N., R. 5 W., on top of E. head wall of concrete culvert; chiseled square-----	596.79
Cotton Hill, 0.4 mi. SE. thence 3.3 mi. S. from, 1.1 mi. E. thence 1.5 mi. N. from Glenarm, near E $\frac{1}{4}$ cor. sec. 22, T. 14 N., R. 5 W., in SW. angle of crossroads, 5 ft. W. of fence corner; standard iron post with bronze cap stamped "58 A 1922"-----	593.860

588 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Glenarm, 1.1 mi. E. of, near NE. cor. sec. 34, T. 14 N., R. 5 W., 40 ft. S. and 35 ft. W. from junction of T-rd. N., on S. side of rd., in front yard of house, in root on NW. side of westernmost of row of three poplar trees; copper nail and washer-----	601.18
8. From crossroads 1.2 miles south of Zenobia east 1.7 miles (by E. O. Brooks in 1922)	
Zenobia, 1.2 mi. S. thence 1.0 mi. E. from, near NE. cor. sec. 10, T. 12 N., R. 4 W., 50 ft. S. and 25 ft. W. from crossroads, near Shiloh Church, in 10-in hedge stump; copper nail and washer-----	625.16
[Continued in Taylorville quadrangle, line 3]	
9. From point 1 mile east of Rochester south along road 2.5 miles (by E. O. Brooks in 1922)	
[Continued from Springfield quadrangle, line 5]	
Rochester, 1.0 mi. E. thence 1.0 mi. S. from, near E $\frac{1}{4}$ cor. sec. 22, T. 15 N., R. 4 W., in center of top of W. head wall of concrete culvert over small drain; chiseled square-----	567.90
Rochester, 1.0 mi. E. thence 1.5 mi. S. from, near SE. cor. sec. 22, T. 15 N., R. 4 W., in NW. angle of crossroads, in root on E. side of 36-in. Osage-orange tree; copper nail and washer-----	581.72
10. From road junction 3.4 miles southeast of Rochester east 0.9 mile along road to point 1.5 miles west of Berry (by Harry McDermith in 1936)	
Berry, 1.7 mi. W. of, 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 26, T. 15 N., R. 4 W., 27 ft. N. of rd., in SE corner of farmyard, in root on S. side of 32-in. maple tree; copper nail and washer-----	582.35
[Continued in Taylorville quadrangle, line 7]	
11. From point 0.7 mile south and 2.5 miles west from Chatham alternately east and north along roads to Chatham (by Harry McDermith in 1936)	
[Connects with line 2 in Waverly quadrangle]	
Chatham, 2.0 mi. W. thence 0.4 mi. S. from, 615 ft. N. of SE. cor. sec. 10, T. 14 N., R. 6 W., 615 ft. N. of junction of T-rd. N., in S. end of W. head wall of multiple box culvert; standard tablet stamped "1 M 1936"-----	601.668
Chatham, 0.5 mi. S. and 1.0 mi. W. from, near cor. secs. 11, 12, 13, and 14, T. 14 N., R. 6 W., at I-beam bridge over small creek, on W. end of SW. wing wall; chiseled square-----	590.42
Chatham, in SW. part of, 0.2 mi. W. of NE. cor. sec. 13, T. 14 N., R. 6 W., 16 ft. S. and 48 ft. W. from junction of State Highway 4, on S. head wall of concrete culvert; chiseled square-----	603.36
U. S. C. & G. S. standard disk stamped "R 95 1935"-----	605.970

DUNLAP QUADRANGLE

[Latitude $40^{\circ}45' - 41^{\circ}00'$; longitude $89^{\circ}30' - 89^{\circ}45'$]

MARSHALL, PEORIA, STARK, AND WOODFORD COUNTIES

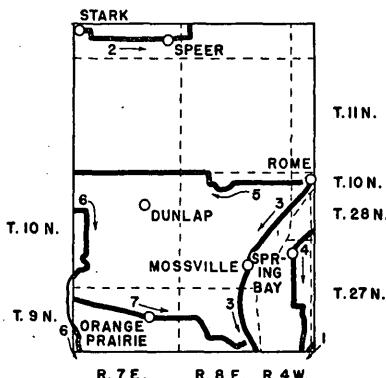


FIGURE 106.—Lines of leveling in Dunlap quadrangle.

1. From point 2 miles southwest of Germantown southwest 0.5 mile along State Highway 116 (by J. A. Shumate in 1927)

[Continued from Metamora quadrangle, line 2]

Germantown, 2.3 mi. SW. of, near E $\frac{1}{4}$ cor. sec. 36, T. 27 N., R. 4 W., about 1,000 ft. S. of top of hill, in center of top of W. head wall of concrete culvert; chiseled square-----

Feet
721.36

[Continued in Peoria quadrangle, line 13]

2. From point 0.3 mile west of Stark along roads alternately east and south to point 1.1 miles east of Speer, thence north 0.8 mile along State Highway 88 (by H. S. Senseney in 1927)

[Continued from Elmwood quadrangle, line 1]

Stark, 0.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 30, T. 12 N., R. 7 E., in SW. corner of junction of N.-S. rd., 3.3 ft. S. of fence corner; cap on 1-in. iron pipe-----

654.29

Stark, 0.5 mi. E. thence 0.5 mi. S. from, near E. cor. secs. 30 and 31, T. 12 N., R. 7 E., at junction of T.-rd. E., on W. side of rd., in root of tree; copper nail and washer-----

662.47

Stark, 0.5 mi. S. and 1.5 mi. E. from, 3.4 mi. W. of Speer, near NE. cor. sec. 32, T. 12 N., R. 7 E., 30 ft. S. and 38 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 35, T 1924"-----

674.212

Reference mark, 38.1 ft. W. of tablet, in root of tree; copper nail and washer-----

674.17

Speer, 2.4 mi. W. of, near SE. cor. sec. 28, T. 12 N., R. 7 E., in NW. corner of crossroads, in root of tree; copper nail and washer-----

685.32

Speer, 1.4 mi. W. of, near cor. secs. 26, 27, 34, and 35, T. 12 N., R. 7 E., in SW. pier of bridge; top of bolt-----

696.49

590 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Speer, 0.4 mi. W. of, at District 43 School, near SE. cor. sec. 26, T. 12 N., R. 7 E., at offset crossroads, 4 ft. N. and 75 ft. W. from junction of T-rd. N., in SW. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 34 T 1924"	Feet 745.706
Reference mark, 110 ft. E. of tablet, in root of tree; copper nail and washer	747.83
Speer, 1.1 mi. E. of, near S $\frac{1}{4}$ cor. sec. 30, T. 12 N., R. 8 E., at NW. corner of crossroads, on concrete drain pipe; chiseled square	806.46
[Continued in Camp Grove quadrangle, line 4]	
3. From point 0.7 mile northeast of Rome southwest and southeast along State Highway 29 to point 1.9 miles north of Peoria water-works (by E. E. Harris in 1929; first-order leveling)	
[Continued from Metamora quadrangle, line 8]	
Rome, on Knox Street (Farmington rd.), first rd. S. of R. R. sta., 42 ft. E. of center line of track, 42.4 ft. S. of center line of E.-W. rd., at junction of T-rd. N., 253 ft. SW. of SW. corner of house of S. Dahl, 2.5 ft. N. of S. hedge fence; U. S. C. E. P. B. M. 59	
cap on iron pipe	464.874
bolt in limestone block	460.954
Rome, 1.0 mi. SW. of, in sec. 7, T. 10 N., R. 9 E., 13.3 ft. E. of center line of highway, near NW. corner of Rock Ledge Lodge, on top of concrete sea wall, 0.9 ft. from S. end; chiseled square	456.57
Rome, 1.9 mi. SW. of, at South Rome, near SE. cor. sec. 12, T. 10 N., R. 8 E., 14.1 ft. N. of center line of driveway to farmhouse of John Swanson, 27.8 ft. W. of center line of highway, in root on E. side of 30-in. elm tree; copper nail and washer	457.60
Rome, 2.6 mi. SW. of, 3.0 mi. NE. of Mossville, near center of sec. 13, T. 10 N., R. 8 E., 1,150 ft. NE. of R. R. crossing, 19.5 ft. E. of center line of highway, in center of head wall of concrete culvert; chiseled square	462.56
Mossville, 2.5 mi. NE. of, in SW $\frac{1}{4}$ sec. 13, T. 10 N., R. 8 E., 1,150 ft. SW. of R. R. crossing, 18.4 ft. E. of center line of highway, 16.2 ft. S. of private entrance to lodge E. of R. R., 10.6 ft. W. of fence; U. S. C. E. P. B. M. 58	
cap on iron post	462.486
bolt in limestone block	458.542
Mossville, 2.5 mi. NE. of, in SW $\frac{1}{4}$ sec. 13, T. 10 N., R. 8 E., about 1,150 ft. S. of R. R. crossing, 26.7 ft. E. of center line of highway, 14.3 ft. N. of gate, 1.7 ft. W. of fence line, in concrete post; standard tablet stamped "6 H 1929"	462.075
Mossville, 1.5 mi. NE. of, near center of sec. 23, T. 10 N., R. 8 E., 850 ft. S. of Peoria Aero Club, 12.7 ft. W. of center line of highway, in center of top of head wall of concrete culvert; chiseled square	471.34
Mossville, 0.7 mi. NE. of, near SW. cor. sec. 23, T. 10 N., R. 8 E., 21.3 ft. N. of center line of angle S. in highway, 20 ft. E. of center line of gravel rd. N., in center of top of head wall of concrete culvert; chiseled square	474.07
Mossville, at N. end of, at SW. corner of intersection of State and Grant Streets, in SW. corner of schoolyard; U. S. C. E. P. B. M. 57	
cap on pipe	471.436
bolt in limestone block	467.492

	Feet
Mossville, 0.7 mi. SW. of, in NE $\frac{1}{4}$ sec. 34, T. 10 N., R. 8 E., 14.5 ft. W. of center line of highway, at small concrete bridge, on top near center of SW. wing wall; chiseled square-----	477.03
Mossville, 1.6 mi. SW. of, in NW $\frac{1}{4}$ sec. 3, T. 9 N., R. 8 E., 750 ft. N. of junction of rd. W. to Detweiller Park, 13.3 ft. W. of center line of highway, on top near center of head wall of concrete culvert; chiseled square-----	457.31
Mossville, 2.2 mi. S. of, in SW $\frac{1}{4}$ sec. 3, T. 9 N., R. 8 E., 62 ft. S. of junction of rd. W., 14.9 ft. W. of center line of highway, at top of grade, on top of guard rail of concrete bridge, 9.5 ft. from S. end; chiseled square-----	484.60
Mossville, 3.0 mi. S. of, 14 ft. W. of center line of highway, 31 ft. S. of center line of dirt rd. W., on top near center of head wall of concrete culvert; chiseled square-----	461.25
Mossville, 3.4 mi. S. of, 3.3 mi. NW. of Peoria waterworks, near S. side of sec. 10, T. 9 N., R. 8 E., 87.4 ft. NW. of elm tree on N. side of creek; U. S. C. E. P. B. M. 56	
cap on iron pipe-----	476.452
bolt in limestone block-----	472.483
Peoria waterworks, 2.5 mi. N. of, at Gardner School, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 15, T. 9 N., R. 8 E., 32.7 ft. W. of center line of highway, 53 ft. S. of center line of dirt rd. W., at flagpole in front of schoolhouse, in center of E. side of large concrete foundation; chiseled square-----	476.92
Peoria waterworks, 1.9 mi. N. of, 13.5 ft. W. of center line of highway, 82 ft. S. of center line of rd. W., on top near center of head wall of concrete culvert; chiseled square-----	460.84

[Continued in Peoria quadrangle, line 16]

4. From point 1.9 miles northeast of Spring Bay along roads southwest to Spring Bay, thence generally south to point near south quarter corner sec. 36, T. 27 N., R. 4 W. (by E. E. Harris in 1929)

[Continued from Metamora quadrangle, line 4]

Spring Bay, 1.6 mi. NE. of, 20 ft. S. of driveway to house, 26 ft. E. of rd., at top of grade, in root on W. side of 15-in. catalpa tree; copper nail and washer-----	486.32
Spring Bay, 0.7 mi. NE. of, 23 ft. E. of center line of rd., on N. bank of wash, in root on W. side of 24-in. cottonwood tree; copper nail and washer-----	463.01
Spring Bay, at schoolhouse, in SW. corner of street intersection, 19.6 ft. N. of face of building, 2.5 ft. E. of center line of concrete walk, in NW. corner of concrete foundation of well; standard tablet stamped "14 H 1929"-----	471.456
Reference mark, 53 ft. E. of tablet, in root on S. side of 15-in. maple tree; copper nail and washer-----	469.07
Spring Bay, 0.7 mi. S. of, near W $\frac{1}{4}$ cor. sec. 12, T. 27 N., R. 4 W., on E. side of rd., at top of grade, at S. end of picket fence, in root on W. side of 30-in. hackberry tree; copper nail and washer-----	515.76
Spring Bay, 1.2 mi. S. of, near SW. cor. sec. 12, T. 27 N., R. 4 W., 21 ft. N. and 36 ft. E. from junction of T-rd. E., in root on SW. side of 36-in. elm tree; copper nail and washer-----	524.79

Spring Bay, 1.7 mi. S. of, near E $\frac{1}{4}$ cor. sec. 14, T. 27 N., R. 4 W., 23 ft. W. of rd., 21 ft. N. of fence separating two private rds. W., in root on S. side of 30-in. wild-cherry tree; copper nail and washer-----	Feet 544. 66
Spring Bay, 2.2 mi. S. of, near E. cor. secs. 14 and 23, T. 27 N., R. 4 W., 17 ft. W. of rd., 60 ft. S. of E.-W. fence line, in root on NE. side of 24-in. hickory tree; copper nail and washer-----	532. 81
Spring Bay, 2.7 mi. S. thence 0.6 mi. E. from, 18 ft. S. and 40 ft. E. from crossroads, 4.7 ft. N. of fence line, in concrete post; standard tablet stamped "13 H 1929"-----	552. 358
Spring Bay, 3.2 mi. S. and 0.6 mi. E. from, near N $\frac{1}{4}$ cor. sec. 25, T. 27 N., R. 4 W., at bridge over creek, on NW. stone wing wall; chiseled square-----	544. 92
Spring Bay, 4.2 mi. S. and 0.6 mi. E. from, near quarter corner between secs. 25 and 36, T. 27 N., R. 4 W., 13 ft. S. of farm rd. crossing, 12 ft. W. of center line of rd., in center of small concrete culvert; chiseled square-----	538. 83
Spring Bay, 4.8 mi. S. and 0.6 mi. E. from, about 0.1 mi. S. of center of sec. 36, T. 27 N., R. 4 W., on E. side of rd., on top of SE. wing wall of culvert; chiseled square-----	522. 68
[Connects with line 13 in Peoria quadrangle]	
5. From Rome generally west along roads to point 3 miles south and 0.2 mile east from Princeville (by E. E. Harris in 1929)	
Rome, 1.0 mi. W. of, about 600 ft. E. of W $\frac{1}{4}$ cor. sec. 6, T. 10 N., R. 9 E., on S. side of rd., at top of grade, in front of house, 3 ft. S. of fence line, in root on N. side of 30-in. maple tree; copper nail and washer-----	527. 10
Rome, 2.1 mi. W. of, near E $\frac{1}{4}$ cor. sec. 2, T. 10 N., R. 8 E., 79 ft. S. and 25 ft. W. from junction of T-rd. S., 2 ft. E. of fence line, in root on NW. side of 15-in. elm tree; copper nail and washer-----	549. 51
Rome, 3.1 mi. W. of, near W $\frac{1}{4}$ cor. sec. 2, T. 10 N., R. 8 E., 22 ft. N. and 59 ft. E. from crossroads, 200 ft. S. of school, 1.7 ft. N. and 20 ft. E. from yard fence, in concrete post; standard tablet stamped "30 H 1929"-----	508. 185
Reference mark, 72 ft. E. of tablet, in root on S. side of 30-in. elm tree; copper nail and washer-----	507. 13
Rome, 4.0 mi. W. of, near W $\frac{1}{4}$ cor. sec. 3, T. 10 N., R. 8 E., on N. side of rd., 250 ft. E. of sharp turn S. in rd., at foot of bluffs, at small bridge over drain, on E. end of NW. concrete wing wall; chiseled square-----	519. 12
Rome, 4.9 mi. W. of, in SW $\frac{1}{4}$ sec. 4, T. 10 N., R. 8 E., on S. side of bend in rd. at top of grade, in root on S. side of 12-in. oak tree; copper nail and washer-----	734. 20
Rome, 5.9 mi. W. of, about 0.1 mi. S. of center of sec. 5, T. 10 N., R. 8 E., 25 ft. N. and 21 ft. W. from junction of N.-S. rd., in root on S. side of 15-in. walnut tree; copper nail and washer-----	767. 12
Rome, 5.9 mi. W. thence 0.6 mi. N. from, 1.5 mi. N. thence 3.5 mi. E. from Dunlap, near S $\frac{1}{4}$ cor. sec. 32, T. 11 N., R. 8 E., 47 ft. N. and 27 ft. E. from crossroads, 3 ft. N. and 2 ft. W. from fence line, in concrete post; standard tablet stamped "31 H 1929"-----	764. 656
Dunlap, 1.5 mi. N. thence 2.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 6, T. 10 N., R. 8 E., 29 ft. S. and 20 ft. W. from intersection of State Highway 88, on top of angle of head wall of culvert; chiseled square-----	735. 45

Dunlap, 1.5 mi. N. thence 2.0 mi. E. from, near SW. cor. sec. 31, T. 11 N., R. 8 E., 27 ft. N. and 127 ft. E. from crossroads, in root on S. side of 60-in. cottonwood tree; copper nail and washer-----	Feet 736. 76
Dunlap, 1.5 mi. N. thence 1.3 mi. E. from, 0.3 mi. E. of SW. cor. sec. 36, T. 11 N., R. 7 E., on N. side of rd., at NE. corner of rd; bridge over Chicago & North Western Ry.; top of iron bolt head of guard rail-----	744. 82
Dunlap, 1.5 mi. N. of, near SW. cor. sec. 35, T. 11 N., R. 7 E., 28 ft. N. and 41 ft. E. from intersection of State Highway 30, 1.5 ft. S. and 11 ft. E. from fence corner, in concrete post; standard tablet stamped "32 H 1929"-----	696. 812
Reference mark, 54 ft. W. of tablet, on top of angle in head wall of concrete culvert; chiseled square-----	696. 00
Dunlap, 1.5 mi. N. thence 1.0 mi. W. from, near SE. cor. sec. 33, T. 11 N., R. 7 E., at offset crossroads, 55 ft. N. and 27 ft. W. from junction of T-rd. N., 32 ft. N. and 2.5 ft. E. from jog in N.-S. fence line, on large boulder; chiseled square-----	742. 48
Dunlap, 1.5 mi. N. thence 2.0 mi. W. from, near NE. cor. sec. 5, T. 10 N., R. 7 E., at offset crossroads, 29 ft. S. and 45 ft. W. from junction of T-rd. S., in root on E. side of 10-in. elm tree; copper nail and washer-----	791. 08
Dunlap, 1.5 mi. N. thence 3.0 mi. W. from, 3.0 mi. S. thence 1.0 mi. E. from Princeville, near NW. cor. sec. 5, T. 10 N., R. 7 E., 24 ft. S. and 32 ft. E. from junction of T-rd. N., 2 ft. N. of fence line, in concrete post; standard tablet stamped "33 H 1929"-----	765. 806

[Continued in Elmwood quadrangle, line 5]

6. From point 5 miles south and 0.2 mile east from Princeville along roads east 0.8 mile, thence generally south to point 0.2 mile north and 0.4 mile east from Edwards (by E. E. Harris in 1929)

[Continued from Elmwood quadrangle, line 6]

Princeville, 5.0 mi. S. thence 1.0 mi. E. from, 0.5 mi. S. thence 3.0 mi. W. from Dunlap, near NW. cor. sec. 17, T. 10 N., R. 7 E., in SE. corner of crossroads, on head wall of culvert; chiseled square-----	695. 33
Dunlap, 1.5 mi. S. and 3.0 mi. W. from, opposite Hazel Dell School, near NE. cor. sec. 19, T. 10 N., R. 7 E., in SW. angle of crossroads, on SW wall of bridge, at base of banister; chiseled square-----	649. 80
Hazel Dell School, 1.0 mi. S. of, near E. cor. secs. 19 and 30, T. 10 N., R. 7 E., on W. side of rd., on N. side of farm rd., on top of 12-in. drain pipe; chiseled square-----	631. 26
Hazel Dell School, 2.2 mi. S. of, 2.5 mi. NE. of Kickapoo, near SW. cor. sec. 29, T. 10 N., R. 7 E., 32 ft. N. and 28 ft. E. from junction of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 49 T 1924"-----	632. 000
Kickapoo, 2.0 mi. NE. of, near N $\frac{1}{4}$ cor. sec. 31, T. 10 N., R. 7 E., in SE. angle of rd. junction, in root on NE. side of 12-in. oak tree; copper nail and washer-----	621. 48

[Jogs into Elmwood quadrangle, line 7]

Kickapoo, 1.7 mi. SE. of, about 0.25 mi. N. of center of sec. 18, T. 9 N., R. 7 E., on W. side of rd., at SW. corner of small bridge, on iron cross-beam support; chiseled square-----	628. 76
Kickapoo, 2.5 mi. SE. of, 0.7 mi. N. and 0.4 mi. E. from Edwards, about 0.1 mi. E. of S $\frac{1}{4}$ cor. sec. 18, T. 9 N., R. 7 E., on E. side of rd., 200 ft. N. of house, in fence line, in root on W. side of 36-in. red-oak tree; copper nail and washer-----	626. 14

[Connects with line 3 in Glasford quadrangle]⁵⁰

7. From Kickapoo generally southeast along U. S. Highway 150 and other roads to Gardner School (by E. E. Harris in 1929)

[Connects with line 7 in Elmwood quadrangle]

	Feet
Kickapoo, 0.7 mi. E. of, 0.25 mi. N. or SE. cor. sec. 6, T. 9 N., R. 7 E., in NW. corner of crossroads, on angle of head wall of concrete culvert; chiseled square-----	684. 87
Kickapoo, 1.3 mi. SE. of, about 0.1 mi. N. of S $\frac{1}{4}$ cor. sec. 5, T. 9 N., R. 7 E., in SW. corner of junction of rd. S., on angle of head wall of concrete culvert; chiseled square-----	689. 74
Kickapoo, 1.8 mi. SE. of, near SW. cor. sec. 4, T. 9 N., R. 7 E., opposite schoolhouse, 37 ft. N. of center line of highway, 25 ft. E. of center line of T-rd. N., in angle in fence line, 3 ft. from each fence, in concrete post; standard tablet stamped "37 H 1929"-----	665. 897
Reference mark, 105 ft. N.70°W. of tablet, in root on S. side of 20-in. boxelder tree; copper nail and washer-----	666. 32
Kickapoo, 2.4 mi. SE. of, in NE $\frac{1}{4}$ sec. 9, T. 9 N., R. 7 E., 600 ft. E. of junction of rd. S., on S. side of rd., on top near center of long head wall of concrete culvert; chiseled square-----	682. 34
Kickapoo, 3.3 mi. SE. of, 1.1 mi. W. of Orange Prairie, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 10, T. 9 N., R. 7 E., in NW. corner of crossroads, on top near center of head wall of concrete culvert; chiseled square-----	708. 31
Orange Prairie, 80 ft. W. of schoolhouse, near center of sec. 11, T. 9 N., R. 7 E., 120 ft. N. of center line of U. S. Highway 150, 100 ft. E. of center line of State Highway 30, in root on S. side of 30-in. elm tree; copper nail and washer-----	699. 31
Orange Prairie, 0.6 mi. E. of, about 700 ft. E. of W $\frac{1}{4}$ cor. sec. 12, T. 9 N., R. 7 E., at bend S. in U. S. Highway 150; 30 ft. N. of center line of highway, 35 ft. S. of E.-W. rd., 5 ft. S. of telephone pole, in concrete post; standard tablet stamped "38 H 1929"-----	718. 652
Reference mark, 224 ft. E. of tablet, on head wall of concrete culvert; chiseled square-----	714. 93
Orange Prairie, 2.0 mi. E. of, 2.5 mi. S. of Alta, near center of sec. 7, T. 9 N., R. 8 E., in SE. corner of crossroads, in root on W. side of corner hedge tree; copper nail and washer-----	786. 67
Orange Prairie, 2.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 7, T 9 N., R. 8 E., in SW. angle of rd. junction, in root on N. side of 20-in. ash tree; copper nail and washer-----	776. 13
Orange Prairie, 2.5 mi. E. thence 1.2 mi. SE. from, 0.8 mi. W. of Keller, near center of sec. 17, T. 9 N., R. 8 E., 40 ft. N. and 25 ft. W. from crossroads, 3 ft. E. of fence line, in concrete post; standard tablet stamped "39 H 1929"-----	775. 217
Reference mark, 1,425 ft. N. of tablet, on E. head wall of concrete culvert; chiseled square-----	768. 04
Keller, 40.5 ft. W. of Chicago, Rock Island & Pacific Ry., 70 ft. S. of E.-W. rd., in root on NE. side of 18-in. hackberry tree; copper nail and washer-----	798. 89
Keller, 1.0 mi. SE. of, 1.1 mi. SW. of Gardner School, in North Peoria Heights; near W. cor. secs. 15 and 22, T. 9 N., R. 8 E., at junction of old rd. E. to Tubercular Sanitarium, in root on W. side of 24-in. white-oak tree; copper nail and washer-----	799. 01

⁵⁰ This line crosses the northwest corner of Peoria quadrangle, but no bench marks were established in that portion of the line.

ELMWOOD QUADRANGLE

[Latitude $40^{\circ}45' - 41^{\circ}00'$; longitude $89^{\circ}45' - 90^{\circ}00'$]

KNOX, PEORIA, AND STARK COUNTIES

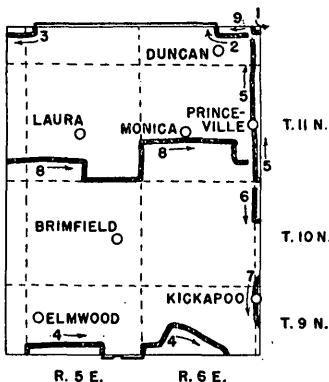


FIGURE 107.—Lines of leveling in Elmwood quadrangle.

1. From point 0.3 mile north and 0.5 mile west from Stark along roads south and west 0.5 mile (by H. S. Senseney in 1927)

[Continued from Toulon quadrangle, line 4]

Stark, 0.5 mi. W. of, 4.5 mi. N. of Princeville, near quarter corner between secs. 25 and 30, T. 12 N., Rs. 6 and 7 E., 280 ft. S. of crossroads, at highway bridge over Mud Run Creek, in W. end of N. abutment; standard tablet stamped "8 S 1927" (recovered in 1936)-----
Reference mark, 280 ft. N. of tablet, at NE. corner of crossroads, on culvert; chiseled square-----

Feet
640. 919
637. 05

[Continued in Dunlap quadrangle, line 2]

2. From crossroads 0.5 mile west of Stark west and north along roads to point about 1 mile north and 0.2 mile west from Duncan (by J. A. Shumate in 1927)

Stark, 1.5 mi. W. of, 0.8 mi. N. and 0.8 mi. E. from Duncan, near W $\frac{1}{4}$ cor. sec. 25, T. 12 N., R. 6 E., 25 ft. N. and 40 ft. E. from junction of T-rd. S., in root on S. side of triple 12-in. hedge tree; copper nail and washer-----

658. 28

Duncan, 0.8 mi. N. and 0.2 mi. E. from, near center of sec. 26, T. 12 N., R. 6 E., 290 ft. W. of T-rd. N., on N. side of rd., in root on S. side of 15-in. boxelder tree; copper nail and washer-----

660. 50

[Continued in Toulon quadrangle, line 5]

3. From point in sec. 30, T. 12 N., R. 5 E., south and west along roads to point 2.6 miles north and 2.2 miles east from Truro (by J. A. Shumate in 1927)

[Continued from Toulon quadrangle, line 5]

	Feet
T. 12 N., R. 5 E., 110 ft. W. of center of sec. 30, 24 ft. N. and 25 ft. W. from T-junction of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 45 T 1924"-----	647. 416
Reference mark, 74 ft. SE. of tablet, 19 ft. S. and 34 ft. E. from rd. junction, in root on W. side of 18-in. oak tree; copper nail and washer-----	648. 44
T. 12 N., R. 5 E., near W $\frac{1}{4}$ cor. sec. 30, 60 ft. SE. of junction of rd. S. along Knox-Stark county line, in root on W. side of 10-in. hedge tree; copper nail and washer-----	699. 45
T. 12 N., R. 4 E., near center of sec. 25, 2.5 mi. N. and 2.5 mi. E. from Truro, at bridge near crossroads, on W. end of S. abutment; chiseled square-----	667. 63

[Connects with line 3 in Maquon quadrangle]

4. From point 1.9 miles south and 1 mile west from Elmwood along roads north 0.4 mile, thence generally east near south border of quadrangle to point 2 miles northwest of Edwards (by C. E. Walker in 1927)

[Continued from Glasford quadrangle, line 1]

Elmwood, 1.0 mi. W. thence 1.5 mi. S. from, near NE. cor. sec. 24, T. 9 N., R. 4 E., 150 ft. S. and 20 ft. W. from crossroads, on top of W. head wall of concrete culvert; chiseled square-----	664. 22
Elmwood, 1.5 mi. S. of, near NW. cor. sec. 20, T. 9 N., R. 5 E., in SE. angle of offset crossroads, in line with rd. W., near schoolhouse, near fence line, in concrete post; standard tablet stamped "2 WA 1927"-----	635. 765
Reference mark, in NE. angle of crossroads, on concrete culvert; chiseled square-----	634. 38
Elmwood, 1.5 mi. S. thence 3.0 mi. E. from, 2.0 mi. S. and 2.0 mi. W. from Oak Hill, near SE. cor. sec. 15, T. 9 N., R. 5 E., 30 ft. N. and 15 ft. W. from junction of T-rd. W., 4 ft. N. of fence corner, in concrete post; standard tablet stamped "3 WA 1927"-----	629. 484
Reference mark, at T-rd. W., 10 ft. S., and 40 ft. W. from intersection, on concrete wing wall of bridge; chiseled square-----	628. 73

[Jogs into Glasford quadrangle, line 2]

Oak Hill, 2.0 mi. S. of, near E. cor. secs. 13 and 24, T. 9 N., R. 5 E., 12 ft. W. of stone marking W. cor. secs. 18 and 19, T. 9 N., R. 6 E., near Moore School, on W. side of N.-S. rd., at junction of T-rd. E.; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1912"-----	656. 892
Reference mark, in NE. angle of junction of T-rd. E., on SW. corner of concrete platform of schoolhouse; chiseled square-----	657. 22
T. 9 N., R. 6 E., near SW. cor. sec. 17, 1.1 mi. E. of Moore School, in front of farmhouse of B. E. Emery, in root of westernmost 16-in. maple tree; copper nail and washer-----	652. 78
T. 9 N., R. 6 E., near quarter corner between secs. 8 and 17, 600 ft. S. of Nixon School, 30 ft. N. and 20 ft. E. from crossroads, on concrete culvert; chiseled square-----	635. 92
T. 9 N., R. 6 E., in NE $\frac{1}{4}$ sec. 16, about 2.5 mi. SE. of Oak Hill, at rd. junction, 120 ft. N. of bridge over Nixon-Run Creek, 12 ft. N. of oak tree, 2 ft. NE. of fence corner, in concrete post; standard tablet stamped "4 WA 1927"-----	547. 002
Reference mark, on NE. corner pier of bridge, in anchor plate; top of NW. square cap bolt-----	548. 72

T. 9 N., R. 6 E., in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, about 1.2 mi. W. of Kramm, 200 ft. E. of junction of T-rd. N., on S. side of rd., on concrete culvert; chiseled square-----	Feet
Kramm, about 0.8 mi. S. of, 2.3 mi. NW. of Edwards, in NW. angle of rd. junction, on head wall of concrete culvert; chiseled square-----	646.54
	520.14

[Continued in Glasford quadrangle, line 3]

5. From point 3 miles south and 0.2 mile east from Princeville west 0.2 mile, thence north along range-line road to crossroads 0.5 mile west of Stark (by E. E. Harris in 1929)

[Continued from Dunlap quadrangle, line 5]

Princeville, 3.0 mi. S. of, near SE. cor. sec. 36, T. 11 N., R. 6 E., 115 ft. N. of junction of range line rd., on W. bank of rd., 6 ft. W. of fence line, near SE. corner of house, in root on NE. side of 15-in. maple tree; copper nail and washer-----	753.46
Princeville, 2.0 mi. S. of, near W. cor. secs. 30 and 31, T. 11 N., R. 7 E., in NW. angle of offset crossroads, 26 ft. S. and 31 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 47 T 1924" (recovered in 1934)-----	772.108
Princeville, 1.0 mi. S. of, near NE. cor. sec. 25, T. 11 N., R. 6 E., 40 ft. S. and 60 ft. W. from crossroads, in root on E. side of 18-in. white-oak tree; copper nail and washer-----	748.28
Princeville, 500 ft. E. of Atchison, Topeka & Santa Fe Ry. sta.; top of N. rail of west-bound track-----	746.5
Princeville, in SE. corner of intersection of State Highway 90, opposite bank, on edge of pavement; chiseled square-----	740.59
Princeville, 1.1 mi. N. of, near NE. cor. sec. 18, T. 11 N., R. 6 E., 24 ft. S. and 28 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 46 T 1924" ^a -----	711.623
Princeville, 2.1 mi. N. of, near NW. cor. sec. 7, T. 11 N., R. 7 E., in SE. corner of crossroads, on head wall of culvert; chiseled square-----	678.24
Princeville, 3.0 mi. N. of, near NW. cor. sec. 6, T. 11 N., R. 7 E., 400 ft. S. of intersection of Peoria-Stark county-line rd., on E. side of rd., on head wall of concrete culvert; chiseled square-----	673.02
Princeville, 3.8 mi. N. of, 0.5 mi. W. of Wady Petra, 0.5 mi. W. thence 0.7 mi. S. from Stark, about 0.2 mi. S. of NW. cor. sec. 31, T. 12 N., R. 7 E., in NE. corner of junction of T-rd. E., on head wall of concrete culvert; chiseled square-----	661.38
6. From point 3 miles south of Princeville along roads south 2 miles, thence east 0.2 miles (by E. E. Harris in 1929)	
Princeville, 4.0 mi. S. of, near SW. cor. sec. 6, T. 10 N., R. 7 E., 300 ft. N. of T-rd. E., on E. side of rd., in fence line, in root on SW. side of forked elm tree; copper nail and washer-----	717.14
Princeville, 5.0 mi. S. of, 38 ft. S. and 28 ft. W. from NE. cor. sec. 13, T. 10 N., R. 6 E., near junction of T-rd. W., 80 ft. N. of junction of T-rd. E., 4 ft. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 48 T 1924"-----	691.310

^a In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "X 30 1934," elevation 739.903 ft.

598 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

[Continued in Dunlap quadrangle, line 6]

7. From point 1.6 miles northeast of Kickapoo along roads southwest, south, and southeast 3.2 miles (by E. E. Harris in 1929)

[A jog from Dunlap quadrangle, line 6]

Kickapoo, 1.4 mi. N. of, in W $\frac{1}{2}$ sec. 31, T. 10 N., R. 7 E., at concrete bridge over Fargo Run, on W. end of N. abutment; chiseled square	Feet
	564. 94
Kickapoo, 0.8 mi. N. of, in SW $\frac{1}{4}$ sec. 31, T. 10 N., R. 7 E., at top of grade, on E. side of rd., in front of residence of J. M. Voorhees, in root on NW. side of 40-in. elm tree; copper nail and washer	658. 49
Kickapoo, in NW. corner of public square, in root on N. side of 20-in. boxelder tree; copper nail and washer	669. 26
Kickapoo, 0.9 mi. S. of, in SW $\frac{1}{4}$ sec. 7, T. 9 N., R. 7 E., in SW corner of crossroads, on head wall of small culvert; chiseled square	660. 93

[Continued in Dunlap quadrangle, line 6]

8. From point 1.5 miles south and 3.8 miles west from Laura generally east along roads to crossroads 2 miles south of Princeville (by C. G. Dickinson in 1934)

[Continued from Maquon quadrangle, line 7]

Laura, 1.5 mi. S. thence 3.0 mi. W. from, near NW. cor. sec. 31, T. 11 N., R. 5 E., 30 ft. S. and 15 ft. E. from crossroads, on top of E. head wall of culvert; chiseled square	717. 25
Laura, 1.5 mi. S. thence 2.3 mi. W. from, 0.28 mi. W. of SE. cor. sec. 30, T. 11 N., R. 5 E., on N. side of rd., 38 ft. N. and 115 ft. W. from intersection of N.-S. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk	716. 462
Laura, 1.5 mi. S. thence 2.0 mi. W. from, near SW. cor. sec. 29, T. 11 N., R. 5 E., 38 ft. N. and 115 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk	714. 588
Laura, 1.5 mi. S. thence 1.0 mi. W. from, near S. cor. secs. 28 and 29, T. 11 N., R. 5 E., on N. side of highway, in line with N.-S. fence, on top of E. head wall of culvert under driveway; chiseled square	718. 36
Laura, 1.5 mi. S. of, near SE. cor. sec. 28, T. 11 N., R. 5 E., 12 ft. N. and 21 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk	725. 383
Laura, 1.8 mi. S. of, about 0.25 mi. S. of NW. cor. sec. 34, T. 11 N., R. 5 E., on E. side of rd., 50 ft. S. of E.-W. cross fence, 3 ft. W. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk	713. 040
Laura, 2.5 mi. S. of, near SW. cor. sec. 34, T. 11 N., R. 5 E., 15 ft. N. and 35 ft. E. from crossroads, on E. end of N. head wall of culvert; chiseled square	716. 43
Laura, 2.5 mi. S. thence 1.0 mi. E. from, near cor. secs. 2, 3, 34, and 35, Tps. 10 and 11 N., R. 5 E., 20 ft. S. and 15 ft. W. from junction of rd. N., in concrete post; U. S. C. & G. S. and State Survey standard disk	727. 222
Laura, 2.5 mi. S. thence 1.4 mi. E. from, 3.5 mi. N. thence 0.6 mi. W. from Brimfield, 475 ft. W. of S $\frac{1}{4}$ cor. sec. 35, T. 11 N., R. 5 E., 300 ft. E. of farmhouse, 20 ft. N. of center line of rd., in concrete post; U. S. C. & G. S. and State Survey standard disk	732. 597
Brimfield, 3.5 mi. N. of, near SW. cor. sec. 36, T. 11 N., R. 5 E., 25 ft. N. and 20 ft. E. from junction of rd. N., on top of E. head wall of culvert; chiseled square	737. 27

	Feet
Brimfield, 3.5 mi. N. thence 0.7 mi. E. from, about 0.25 mi. W. of SE. cor. sec. 36, T. 11 N., R. 5 E., 200 ft. W. of crossing of Chicago, Burlington & Quincy R. R., on N. side of rd., in line with hedge fence N., 2 ft. S. of fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk	737.946
Brimfield, 4.0 mi. N. and 1.0 mi. E. from, 2.0 mi. S. and 2.5 mi. W. from Monica, near W $\frac{1}{4}$ cor. sec. 31, T. 11 N., R. 6 E., 400 ft. S. of T-rd. E., 22 ft. E. of center line of rd., in concrete post; U. S. C. & G. S. and State Survey standard disk ⁶²	757.731
Monica, 1.5 mi. S. and 2.5 mi. W. from, near S. cor. secs. 25 and 30, T. 11 N., Rs. 5 and 6 E., 600 ft. N. of crossroads, in line with fence W., 2 ft. E. of fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk	771.497
Monica, 0.5 mi. S. and 1.7 mi. W. from, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 30, T. 11 N., R. 6 E., on S. side of rd., 5 ft. W. of fence S., 2 ft. N. of fence W., in concrete post; U. S. C. & G. S. and State Survey standard disk	773.630
Monica, 0.5 mi. S. and 0.2 mi. W. from, 0.21 mi. W. of N $\frac{1}{4}$ cor. sec. 28, T. 11 N., R. 6 E., on S. side of rd., opposite and 42 ft. SW. of cottonwood tree on N. side of rd., 42 ft. W. of fence line N., 2 ft. N. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "R M 6 11 1934" ⁶³	760.881
Monica, 0.5 mi. S. and 0.7 mi. E. from, 1.0 mi. S. and 2.8 mi. W. from Princeville, 1,000 ft. E. of NW. cor. sec. 27, T. 11 N., R. 6 E., 70 ft. W. of farmhouse, on S. side of rd., 2 ft. N. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "T T 6 11 1934"	772.660
Princeville, 1.0 mi. S. and 1.9 mi. W. from, near NW. cor. sec. 26, T. 11 N., R. 6 E., 350 ft. E. of crossroads, on S. side of rd., 25 ft. W. of farmhouse, 2 ft. N. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "T T 6 10 1934"	770.680
Princeville, 1.0 mi. SW. of, near SW. cor. sec. 24, T. 11 N., R. 6 E., 26 ft. N. of rd. intersection, 3.5 ft. E. of fence N., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "R M 6 9 1934"	770.166
Princeville, 2.0 mi. S. thence 1.0 mi. W. from, near SE. cor. sec. 26, T. 11 N., R. 6 E., in NW. corner of crossroads, 6 ft. N. and 3 ft. E. from corner of iron fence in front of farmhouse, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "T T 6 9 1934"	776.420
9. From crossroads 0.5 mile west of Stark west along road 1.3 miles (by W. C. Elledge in 1936; leveled twice)	
Stark, 1.0 mi. W. of, near center of sec. 25, T 12 N., R. 6 E., at E. end of steel bridge over Mud Run Creek, on S. wing wall; chiseled square	631.47
U. S. C & G. S. standard disk stamped "U 44 1934"	662.689

⁶² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 44 1935," elevation 757.938 ft.

⁶³ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 44 1935," elevation 765.320 ft.

FORT MADISON QUADRANGLE

[Latitude $40^{\circ}30' - 40^{\circ}45'$; longitude $91^{\circ}15' - 91^{\circ}30'$]

HANCOCK COUNTY

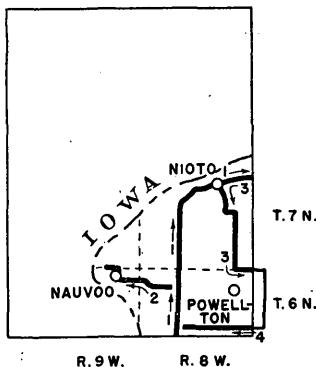


FIGURE 108.—Lines of leveling in Fort Madison quadrangle.

1. From point near quarter corner between secs. 20 and 21, T. 6 N., R. 8 W., north and northeast along roads to Niota (East Fort Madison station), thence northeast along Atchison, Topeka & Santa Fe Railway 1.9 miles (by L. V. Johnson in 1928; first 2.5 miles leveled twice)*

[Continued from Keokuk quadrangle, line 2]

Hamilton, 6.5 mi. N. of N. limits of, 2.8 mi. S. and 3.0 mi. E. from Nauvoo, near SE. cor. sec. 16, T. 6 N., R. 8 W., 15 ft. N. and 35 ft. E. from junction of T-rd. E., on small stone head wall of culvert; chiseled square

Nauvoo, 1.8 mi. S. and 3.0 mi. E. from, near NW. cor. sec. 16, T. 6 N., R. 8 W., 30 ft. S. and 25 ft. E. from junction of T-rd. E., 3 ft. S. of fence corner, in concrete post; standard tablet stamped "3 LJ 1928" (recovered in 1931)

Reference mark, 45 ft. N. and 5 ft. E. from tablet, on rock; chiseled square

Nauvoo, 0.8 mi. S. and 3.0 mi. E. from, 3.0 mi. W. of Powellton, near SW. cor. sec. 4, T. 6 N., R. 8 W., 20 ft. N. and 15 ft. E. from crossroads, on small stone head wall of culvert; chiseled square

Nauvoo, 1.7 mi. N. and 3.0 mi. E. from, 2.5 mi. SW. thence 2.0 mi. S. from Niota, near W $\frac{1}{4}$ cor. sec. 28, T. 7 N., R. 8 W., 45 ft. S. of angle in rd. from E. to N., 5 ft. E. of fence corner, in concrete post; standard tablet stamped "4 LJ 1928"

Niota, 2.5 mi. SW. of, near W $\frac{1}{4}$ cor. sec. 16, T. 7 N., R. 8 W., 25 ft. S. and 20 ft. E. from rd. fork, in root on NW. side of 12-in. oak tree; copper nail and washer

Feet
664. 81
669. 839
671. 52
673. 49
680. 626
700. 65

* An excessive error in this line has been disposed of by adjustment.

Niota, 0.8 mi. SW. of, in SW $\frac{1}{4}$ sec. 10, T. 7 N., R. 8 W., 150 ft. N. and 100 ft. E. from junction of T-rd. W., on N. side of W. end of concrete floor of small bridge; chiseled square-----
 Niota, 20 ft. S. and 50 ft. E. from crossroads, 4 ft. N. and 1 ft. E. from NE. corner of Niota State Bank, at foot of NE. corner of concrete platform, in top of triangular projection of concrete sidewalk; standard tablet stamped "5 LJ 1928" (recovered in 1931)-----
 Reference mark, 35 ft. W. of tablet, on concrete walk; chiseled square-----

Feet
524. 10
522. 155
521. 46

[Continued in Lomax quadrangle, line 4]

2. From crossroads 3 miles west of Powellton northwest along roads to point on Mississippi River about 1 mile northwest of Nauvoo (by L. V. Johnson in 1928; leveled twice)

Nauvoo, near center of city, 30 ft. S. and 20 ft. E. from intersection of Munhallen and Sixteenth Streets, 3 ft. S. of fence corner, in concrete post; standard tablet stamped "7 LJ 1928"-----

659. 368
658. 75

Reference mark, 15 ft. N. and 40 ft. W. from tablet, on concrete walk; chiseled square-----

Nauvoo, in NW. part of city, 380 ft. E. of river bank, 21 ft. S. of center line of Young Street, 5 ft. S. of fence; in orchard; Mississippi River Comm. B. M. 115/2

530. 740
526. 730

cap on iron pipe-----
bolt in tile-----

3. From point 1.9 miles northeast of Niota southwest along highway and roads to Niota, thence alternately south and east along roads to point 1 mile north and 1 mile east from Powellton (by S. R. Archer in 1931)

[Continued from Lomax quadrangle, line 5]

Niota, 1.6 mi. NE. of, 2.7 mi. SW. of Pontoosuc, near center of NE $\frac{1}{4}$ sec. 12, T. 7 N., R. 8 W., in NE. angle of crossroads, at W. abutment of concrete highway bridge, on top of N. parapet; chiseled square-----

532. 10

Niota, 1.4 mi. NE. of, 0.2 mi. SW. of crossing of Atchison, Topeka & Santa Fe Ry. and NW-SE. rd., 0.2 mi. SW. of farm buildings of J. A. Hudson, on Hudson property, 100 ft. riverward from right-of-way fence on NW. side of R. R. tracks, in cultivated field; Mississippi River Comm. B. M. 118/1 (also designated Appanooce triangulation sta.)

524. 560
520. 550

cap on iron pipe-----
bolt in tile-----

Niota, 1.2 mi. in air line NE. of, at Appanooce School, 0.25 mi. N. of SE. cor. sec. 2, T. 7 N., R. 8 W., 3.3 ft. W. of line between secs. 1 and 2, on S. bank of Mississippi River, 5.9 ft. NW. of 5-by 5-in. concrete monument marked "M R. P. Co." 4.6 ft. NW. of NE. corner of schoolyard, on S. side of river rd.; Mississippi River Comm. B. M. 118/2

528. 320
524. 320

cap on iron pipe⁶⁶-----
bolt in tile-----

Niota, 1.0 mi. NE. of, near line between secs. 11 and 12, T. 7 N., R. 8 W., at concrete culvert under highway, on top of W. end of N. head wall; chiseled square-----

526. 20

⁶⁶ Pipe missing in 1931.

	Feet
Niota, at E. side of, 45 ft. E. of crossroads, at concrete bridge under highway, on top of E. end of N. head wall; chiseled square-----	525. 36
Niota, 1.0 mi. SE. of, 0.25 mi. NW. of center of sec. 14, T. 7 N., R. 8 W., 50 ft. S. and 25 ft. W. from junction of rd. E., on E. bank of creek, in root on NW. side of 20-in. coffeeberry tree; copper nail and washer-----	596. 23
Niota, 1.8 mi. SE. of, near N $\frac{1}{4}$ cor. sec. 23, T. 7 N., R. 8 W., 60 ft. S. of crossroads, on W. side of rd., at fence line, in root on SE. side of 24-in. hedge tree; copper nail and washer-----	691. 72
Niota, 1.8 mi. SE. thence 0.5 mi. E. from, 4.0 mi. N. of Powellton, at Crescent School, near SW. cor. sec. 13, T. 7 N., R. 8 W., 29 ft. N. and 42 ft. E. from crossroads, in SW. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No. 26 T 1924"-----	696. 621
Reference mark, 10 ft. S. and 20 ft. W. from NW. corner of schoolhouse, in root on W. side of 36-in. hackberry tree; copper nail and washer-----	697. 39
Powellton, 3.0 mi. N. of, near SE. cor. sec. 23, T. 7 N., R. 8 W., 230 ft. N. of crossroads, on W. side of rd., at fence line, in root on E. side of 30-in. elm tree; copper nail and washer-----	691. 44
Powellton, 2.0 mi. N. of, at Mound School, near NE. cor. sec. 35, T. 7 N., R. 8 W., in SW. corner of crossroads, at NE. corner of schoolyard, in root on NE. side of 24-in. maple tree; copper nail and washer-----	692. 89
Powellton, 1.0 mi. N. of, near SE. cor. sec. 35, T. 7 N., R. 8 W., at offset crossroads, 25 ft. N. and 75 ft. W. from junction of T-rd. N., 25 ft. N. and 28 ft. W. from junction of T-rd. S., 45 ft. W. of fence corner, opposite fence line along W. side of rd. S., on N. side of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 25 T 1924"-----	692. 507
Reference mark, in NE. angle of junction of T-rd. N., 8 ft. E. of fence corner, in root on SW. side of 18-in. twin walnut tree; copper nail and washer-----	693. 35
Powellton, 1.0 mi. N. thence 0.9 mi. E. from, near SE. cor. sec. 36, T. 7 N., R. 8 W., 580 ft. W. of crossroads, on N. side of rd., at fence line, in root on S. side of 30-in. elm tree; copper nail and washer-----	697. 25

[Continued in Lomax quadrangle, line 7]

4. From point near east corner secs. 13 and 24, T. 6 N., R. 8 W., west along road 4 miles, thence north 1 mile to west corner secs. 9 and 16 (by S. R. Archer in 1931)

[Continued in Lomax quadrangle, line 7]

T. 6 N., R. 8 W., near SE. cor. sec. 13, 270 ft. W. of crossroads, on N. side of rd., at fence line, in root on S. side of 18-in. boxelder tree; copper nail and washer-----	693. 34
T. 6 N., R. 8 W., near SE. cor. sec. 14, 2.0 mi. S. of Powellton, at Christy School, 30 ft. N. and 30 ft. W. from crossroads, in SE. corner of schoolyard; standard iron post with bronze cap stamped "Prim Trav Sta No 51 1910"-----	680. 485
Reference mark, 55 ft. W. of iron post, in root on SW. side of 24-in. maple tree; copper nail and washer-----	680. 30

T. 6 N., R. 8 W., near SW. cor. sec. 14, in NE. angle of crossroads, at E. end of concrete culvert under rd. N., on S. wing wall; chiseled square-----	<i>Feet</i> 664.07
T. 6 N., R. 8 W., near SE. cor. sec. 16, at Center School, in NW. angle of crossroads, at porch in front of schoolhouse, 2 ft. W. of NE. corner of concrete floor; chiseled square-----	680.12
T. 6 N., R. 8 W., near SW. cor. sec. 16, 170 ft. N. of junction of T-rd. E., on E. side of rd., in field, in root on E. side of 30- in. maple tree; copper nail and washer-----	663.85

GALESBURG QUADRANGLE

[Latitude $40^{\circ}45'$ – $41^{\circ}00'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]

KNOX AND WARREN COUNTIES

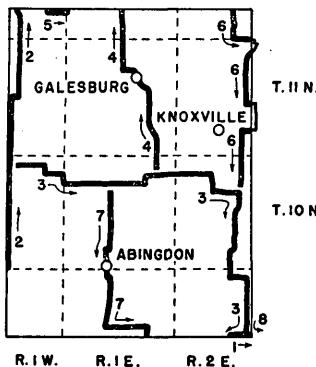


FIGURE 109.—Lines of leveling in Galesburg quadrangle.

1. From point 2.8 miles north of London Mills along roads north 0.1 mile, thence east to point 0.2 mile east of Way School (by J. B. Leavitt in 1911; leveled twice)

[Continued from Avon quadrangle, line 2]

London Mills, 2.9 mi. N. of, 1.0 mi. W. of Way School, near E $\frac{1}{4}$ cor. sec. 21, T. 9 N., R. 2 E., in SW. angle of T-junction of E.-W. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 24 632" (recovered in 1924) -----

Feet
630. 980

[Continued in Canton quadrangle, line 5]⁵⁰

2. From point 0.2 mile north and 2 miles east from Berwick generally north along roads to point 1.2 miles north of Utah (by S. R. Archer in 1921)

[Continued from Monmouth quadrangle, line 2]

Berwick, 2.0 mi. E. thence 0.2 mi. N. from, 5.5 mi. along R. R. W. of Abingdon, near cor. secs. 3, 4, 33, and 34, Tps. 9 and 10 N., R. 1 W., in SW. corner of intersection of Minneapolis & St. Louis R. R., 8 ft. S. of right-of-way corner, in trunk 4 in. underground on E. side of small double elm tree; rail spike-----

652. 48

Berwick, 2.0 mi. E. thence 1.2 mi. N. from, near SW. cor. sec. 27, T. 10 N., R. 1 W., in NE. angle of crossroads, in fence corner, in root on NW. side of 24-in. oak tree; copper nail and washer-----

687. 16

Berwick, 2.0 mi. E. thence 1.7 mi. N. from, near W $\frac{1}{4}$ cor. sec. 27, T. 10 N., R. 1 W., 100 ft. S. of private lane E. to residence of D. B. Hackensmith, on E. side of rd., inside fence line, in root on NW. side of 24-in. tree, northernmost of row of six walnut trees; copper nail and washer-----

723. 22

⁵⁰ This line crosses the southwest corner of Maquon quadrangle, but no bench marks were established along that portion of the line.

	Feet
Berwick, 2.0 mi. E. thence 2.2 mi. N. from, at cor. secs. 21, 22, 27, and 28, T. 10 N., R. 1 W., at center of crossroads, on highest point of stone marking section corner; chiseled square-----	731. 22
Berwick, 2.0 mi. E. thence 3.0 mi. N. from, 0.21 mi. S. of NE. cor. sec. 21, T. 10 N., R. 1 W., on W. side of rd., on top of N. end of W. concrete head wall of culvert; chiseled square-----	725. 44
Berwick, 2.0 mi. E. thence 3.0 mi. N. from, 1.2 mi. E. thence 3.0 mi. S. from Cameron, near NW. cor. sec. 22, T. 10 N., R. 1 W., in SE. angle of crossroads; standard iron post with bronze cap stamped "1921 738"-----	737. 461
Cameron, 1.2 mi. E. thence 2.0 mi. S. from, near SW. cor. sec. 10, T. 10 N., R. 1 W., in NE. corner of crossroads, inside fence, in root on N. side of 24-in. elm tree; copper nail and washer-----	689. 96
Cameron, 1.2 mi. E. thence 1.0 mi. S. from, near E. cor. secs. 4 and 9, T. 10 N., R. 1 W., on W. side of rd., at NE. corner of yard of Stringtown School, in root on E. side of 12-in. cherry tree; copper nail and washer-----	761. 12
Cameron, 1.2 mi. E. thence 0.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 3, T. 10 N., R. 1 W., 35 ft. SE. of SE. corner of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 25 1919 760" (recovered in 1924)-----	758. 291
Cameron, 1.2 mi. E. of, about 8 mi. SW. of Galesburg, about 130 ft. S. of NW. cor. sec. 3, T. 10 N., R. 1 W., 230 ft. S. of Chicago, Burlington & Quincy R. R. track, 100 ft. S. of jog E. in rd., at E. fence line of rd., in root on SW. side of 15-in. cherry tree; copper nail and washer-----	776. 30
Cameron, 1.2 mi. E. thence 1.0 mi. N. from, near NW. cor. sec. 34, T. 11 N., R. 1 W., in SE. corner of crossroads, in root on NW. side of 48-in. maple tree; copper nail and washer-----	765. 83
Cameron, 1.2 mi. E. thence 2.0 mi. N. from, 2.0 mi. S. and 1.0 mi. E. from Coldbrook, near NE. cor. sec. 28, T. 11 N., R. 1 W., 470 ft. S. of crossroads, on W. side of rd., at bridge over creek, on top of W. wing wall of N. concrete abutment; aluminum tablet stamped "1921 706"-----	705. 123
Reference mark, 300 ft. S. of crossroads, 170 ft. N. of bridge over creek, on W. side of rd., at fence line, in root on E. side of 36-in. oak tree; copper nail and washer-----	702. 83
Coldbrook, 1.0 mi. S. and 1.0 mi. E. from, near NW. cor. sec. 22, T. 11 N., R. 1 W., in SE. angle of junction of E.-W. rd., 7 ft. E. of fence corner, in root on E. side of double ash tree; copper nail and washer-----	764. 71
Coldbrook, 1.5 mi. E. thence 1.0 mi. S. from, near S $\frac{1}{4}$ cor. sec. 15, T. 11 N., R. 1 W., 250 ft. N. of crossroads, on W. side of rd., in root 4 in. underground on SE. side of 30-in. locust tree; copper nail and washer-----	765. 77
Coldbrook, 1.5 mi. E. of, 6.5 mi. along State Highway 8 W. of Galesburg, 2.5 mi. S. of Utah, near N $\frac{1}{4}$ cor. sec. 15, T. 11 N., R. 1 W., 200 ft. E. of crossroads, on S. side of Cannon Ball Trail, in front yard of dwelling on S. side of rd., in root 3 in. underground on NW. side of 24-in. elm tree; copper nail-----	775. 78
Utah, 1.5 mi. S. of, near N $\frac{1}{4}$ cor. sec. 10, T. 11 N., R. 1 W., in SW. angle of crossroads, 10 ft. W. of fence corner, in concrete post; standard tablet stamped "1921 759"-----	758. 008
Reference mark, 220 ft. S. of crossroads, on E. side of rd., on top of N. end of E. concrete head wall of drain; chiseled square-----	756. 92

Utah, 0.5 mi. S. of, near $N\frac{1}{4}$ cor. sec. 3, T. 11 N., R. 1 W., in SW. angle of crossroads, at fence corner, in root on W. side of 12-in. walnut tree; copper nail and washer-----	<i>Feet</i> 769. 46
Utah (Tylerville), 80 ft. E. of crossroads, on S. side of rd., in root on SW side of 48-in. cottonwood tree; copper nail and washer-----	741. 02
Utah, 1.1 mi. NW. of, about 0.2 mi. W. of center of sec. 27, T. 12 N., R. 1 W., 30 ft. N. and 75 ft. E. from junction of T-rd. W., in root on NW side of 36-in. oak tree; copper nail and washer-----	705. 92

[Continued in Woodhull quadrangle, line 2]

8. From point 0.5 mile south and 1.2 miles east from Cameron along roads generally east to crossroads 3.3 miles south and 1.2 miles east from Knoxville, thence generally south to point 2.8 miles north of London Mills (by W. S. Gehres in 1924)	
Cameron, 0.5 mi. S. and 2.2 mi. E. from, near $W\frac{1}{4}$ cor. sec. 2, T. 10 N., R. 1 W., 150 ft. N. of N. line of E.-W. rd., 110 ft. E. of E. line of N.-S. rd., in root on S. side of 12-in. locust tree; copper nail and washer-----	770. 66
T. 10 N., R. 1 W., near $E\frac{1}{4}$ cor. sec. 2, on W. side of N.-S. rd., 270 ft. S. of rd. W., in root on SE. side of 24-in. elm tree; copper nail and washer-----	762. 16
T. 10 N., R. 1 W., near NW cor. sec. 12, in SE angle of junction of T-rd. E., E. of Keenan School, inside fence, in concrete post; standard tablet stamped "1 G 1924"-----	754. 712
Reference mark 1, in front of Keenan School, on NE. corner of concrete walk; chiseled square-----	755. 28
Reference mark 2, at SE. corner of schoolyard, in root on SE. side of 36-in. maple tree; copper nail and washer-----	754. 97
T. 10 N., R. 1 E., near SW. cor. sec. 6, 120 ft. N. of junction of N.-S. rd., on E. side of rd., in root on W. side of 30-in. maple tree; copper nail and washer-----	762. 13
T. 10 N., R. 1 W., near $E\frac{1}{4}$ cor. sec. 12, on W. end of N. concrete head wall of culvert over small drain across rd. W.; chiseled square-----	741. 29
T. 10 N., R. 1 E., near $E\frac{1}{4}$ cor. sec. 7, in NW. angle of crossroads, inside fence, in root on NE. side of 24-in. oak tree; copper nail and washer-----	742. 81
T. 10 N., R. 1 E., near $W\frac{1}{4}$ cor. sec. 9, about 7 mi. along State Highway 41 SW. of Galesburg, 4.5 mi. N. and 0.3 mi. W. from Abingdon, in SE. angle of crossroads, 40 ft. E. of E. line of N.-S. rd., in concrete post; standard tablet stamped "2 G 1924"-----	765. 507
Reference mark 1, in NE. angle of crossroads, inside fence, in root on SE. side of 24-in. catalpa tree; copper nail and washer-----	765. 10
Reference mark 2, on S. side of rd., 25 ft. E. of E. line of N.-S. rd., in root on NW. side of 24-in. maple tree; copper nail and washer-----	765. 18
T. 10 N., R. 1 E., near $W\frac{1}{4}$ cor. sec. 10, 330 ft. N. of crossroads, on E. line of rd., in root on W. side of 18-in. hedge tree; copper nail and washer-----	762. 43
T. 10 N., R. 1 E., near $W\frac{1}{4}$ cor. sec. 11, 5.5 mi. in air line S. of Galesburg, 50 ft. E. of water line of Lake Bracken, 75 ft. S. of E.-W. rd., in root on NW. side of 18-in. oak tree; copper nail and washer-----	707. 86
T. 10 N., R. 1 E., near center of sec. 11, 180 ft. W. of crossroads, on S. side of rd., in root on N. side of 18-in. elm tree; copper nail and washer-----	757. 95

	Feet
T. 10 N., R. 1 E., near S $\frac{1}{4}$ cor. sec. 2, on N. side of rd., in quarter line N., in root of 10-in. hedge tree; copper nail and washer-----	769.83
T. 10 N., R. 1 E., near NE. cor. sec. 11, in SW. angle of crossroads, inside fence, in concrete post; standard tablet stamped "3 G 1924" ⁶⁷ -----	771.657
Reference mark, 200 ft. E. of crossroads, on N. side of rd., inside fence, in root on SW. side of 48-in. maple tree; copper nail and washer-----	769.74
T. 10 N., R. 2 E., near NE. cor. sec. 7, on S. side of E.-W. rd., in line with W. line of rd. N., in root on NE. side of 30-in. maple tree; copper nail and washer-----	762.70
T. 10 N., R. 2 E., near NE. cor. sec. 8, 2.3 mi. S. and 0.4 mi. W. from Knoxville, in SW. corner of crossroads, inside fence, in concrete post; standard tablet stamped "4 G 1924" ⁶⁸ -----	732.682
Reference mark, 160 ft. W. of crossroads, on W. end of S. head wall of concrete culvert over small drain across rd. W.; chiseled square-----	737.08
Knoxville, 3.3 mi. S. and 0.4 mi. W. from, near NW. cor. sec. 16, T. 10 N., R. 2 E., 60 ft. E. of rd., 12 ft. S. of S. line of E.-W. rd., in root on N. side of 10-in. wild-cherry tree; copper nail and washer-----	755.00
Knoxville, 3.3 mi. S. and 0.7 mi. E. from, near SW. cor. sec. 10, T. 10 N., R. 2 E., at bridge over Hawk Creek, on N. end of W. abutment; top of middle rivet-----	645.69
Knoxville, 1.2 mi. E. thence 3.3 mi. S. from, 140 ft. W. of Barnett School, in NE. corner of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 100 K 1924 G 5" (recovered in 1927)-----	689.860
Reference mark, 130 ft. W. of schoolhouse, in NE. angle of crossroads, in root on W. side of 18-in. elm tree; copper nail and washer-----	690.75
Knoxville, 1.2 mi. E. thence 4.2 mi. S. from, in SW $\frac{1}{4}$ sec. 15, T. 10 N., R. 2 E., 660 ft. NE. of junction of rd. W., on E. side of rd., inside fence, in root on NW. side of 24-in. maple tree; copper nail and washer-----	703.27
Knoxville, 1.2 mi. E. thence 5.8 mi. S. from, 1.9 mi. E. thence 0.5 mi. N. from De Long, 0.3 mi. W. of center of sec. 27, T. 10 N., R. 2 E., 200 ft. E. of Elwell School, in NE. angle of junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 101 K 1924 G 6"-----	661.354
Reference mark, at SE. corner of schoolhouse, in root on E. side of 18-in. oak tree; copper nail and washer-----	658.71
De Long, 1.8 mi. E. of, near SW. cor. sec. 27, T. 10 N., R. 2 E., 200 ft. E. of junction of T-rd. S., on W. end of N. head wall of concrete culvert across rd. E.; chiseled square-----	653.41
De Long, 1.8 mi. E. thence 1.0 mi. S. from, near NW. cor. sec. 3, T. 9 N., R. 2 E., on E. side of N.-S. rd., in root on W. side of 18-in. oak tree; copper nail and washer-----	647.39
De Long, 1.8 mi. E. thence 1.4 mi. S. from, about 500 ft. N. of E $\frac{1}{4}$ cor. sec. 4, T. 9 N., R. 2 E., 650 ft. N. of junction of rd. E., on N. end of W. head wall of concrete culvert; chiseled square-----	639.70

⁶⁷ In 1937 this bench mark was reset at an elevation 0.288 ft. higher than that originally determined. The figures given represent the new elevation.

⁶⁸ In 1937 this bench mark was reset at a point outside fence, 68 ft. south of fence west, and at an elevation 5.153 ft. lower than that originally determined. The figures given represent the new elevation.

	Feet
De Long, 1.5 mi. S. and 2.8 mi. E. from, 1.8 mi. N. and 1.1 mi. E. from Burnside, near quarter corner between secs. 2 and 3, T. 9 N., R. 2 E., on N. side of rd., opposite T-rd S., in concrete post; standard tablet stamped "Prim Trav Sta No 102 K 1924 G 7"-----	629. 349
Reference mark, 180 ft. E. of junction of T-rd. S., on N. side of rd., inside fence, in root of 18-in. twin maple tree; copper nail and washer-----	622. 59
Burnside, 1.2 mi. N. and 1.1 mi. E. from, near NE. cor. sec. 10, T. 9 N., R. 2 E., on W. line of abandoned rd., 30 ft. S. of fence line W., in root on N. side of 36-in. oak tree; copper nail and washer-----	563. 06
Burnside, 0.2 mi. N. and 1.1 mi. E. from, near SW. cor. sec. 11, T. 9 N., R. 2 E., in NE. corner of junction of T-rd. E., inside fence, in root on W. side of 24-in. oak tree; copper nail and washer-----	698. 42
Burnside, 0.7 mi. S. and 1.1 mi. E. from, 0.6 mi. N. of Way School, about 500 ft. N. of SW. cor. sec. 14, T. 9 N., R. 2 E., at bridge over small drain, on E. end of N. concrete abutment; chiseled square (recovered in 1927)-----	588. 64
Way school, 2.8 mi. N. thence 1.0 mi. E. from London Mills, near quarter corner between secs. 22 and 23, T. 9 N., R. 2 E., in center of cross-roads, on stone monument; chiseled square (not recovered in 1927)-----	623. 17
[Connects with line 2 in Avon quadrangle]	
4. From northeast corner sec. 11, T. 10 N., R. 1 E., alternately north and northwest along roads, Chicago, Burlington & Quincy Railroad, and highway to point 1.4 miles south and 1.5 miles west from Henderson (by W. S. Gehres and G. F. Williams in 1924)	
Galesburg, 4.7 mi. S. of post office, near NE. cor. sec. 2, T. 10 N., R. 1 E., 90 ft. W. of W. line of rd. S., 25 ft. S. of S. line of rd. W., in root on E. side of 24-in. maple tree; copper nail and washer-----	766. 35
Galesburg, 4.1 mi. S. of, about 600 ft. N. of E $\frac{1}{4}$ cor. sec. 35, T. 11 N., R. 1 E., 450 ft. S. of intersection of C. B. & Q. R. R. crossing, on W. side of rd., in root on E. side of 30-in. elm tree, inside fence; copper nail and washer-----	789. 06
Galesburg, 3.2 mi. S. of, about 0.25 mi. S. of center of sec. 26, T. 11 N., R. 1 E., at intersection of W. right-of-way line of R. R. and S. line of E.-W. rd., in concrete post; standard tablet stamped "8 G 1924"-----	780. 394
Reference mark, 220 ft. W. of track, on N. side of rd., in root on E. side of 24-in. walnut tree; copper nail and washer-----	775. 65
Galesburg, 1.5 mi. SE. of post office, near S $\frac{1}{4}$ cor. sec. 14, T. 11 N., R. 1 E., in NE. corner of junction of T-rd. N., on W. side of hydrant, on top of flange; top of bolt-----	783. 77
Galesburg, on E. side of Chambers Street, 60 ft. N. of Peoria Branch of C. B. & Q. R. R., on stone curb; chiseled square-----	780. 70
Galesburg, at SW. corner of South Cherry and East Simmons Streets, at N. entrance of post office, in concrete slab at bottom of steps; standard tablet stamped "9 G 1924" (recovered by U. S. C. & G. S. in 1935)-----	771. 632
Reference mark, near NE. corner of post office, on NW. corner of man-hole top; chiseled square-----	770. 80
Galesburg, on North Cherry Street, at entrance to Hitchcock School, in N. end of concrete slab; standard tablet stamped "10 G 1924" (recovered by U. S. C. & G. S. in 1935)-----	772. 954
Reference mark, on S. end of top concrete step; chiseled square-----	775. 26

Galesburg, 1.0 mi. W. thence 0.8 mi. N. from post office, near SE. cor. sec. 4, T. 11 N., R. 1 E., in NW. angle of crossroads, inside fence, in concrete post; standard tablet stamped "41 W 1924"-----	Feet 777. 890
Reference mark, 70 ft. W. of crossroads, on N. side of rd., in root on S. side of 48-in. maple tree; copper nail and washer-----	777. 69
Galesburg, 1.0 mi. W. thence 1.7 mi. N. from, 270 ft. S. of NW. cor. sec. 3, T. 11 N., R. 1 E., on E. side of rd., in root on W. side of 24-in. maple tree; copper nail and washer-----	788. 08
Galesburg, 1.0 mi. W. thence 2.3 mi. N. from, near W $\frac{1}{4}$ cor. sec. 34, T. 12 N., R. 1 E., on E. side of N.-S. rd., in line with S. line of T-rd. W., inside fence, in root on SW. side of 30-in. maple tree; copper nail and washer-----	783. 07
Galesburg, 1.0 mi. W. thence 2.8 mi. N. from, 1.5 mi. W. thence 2.0 mi. S. from Henderson, 200 ft. S. of NW. cor. sec. 34, T. 12 N., R. 1 E., on E. side of rd., in root on NE. side of 36-in. elm tree; copper nail and washer-----	772. 19

[Connects with line 3 in Woodhull quadrangle]

5. Along roads south, east, and north in sec. 25, T. 12 N., R. 1 W.
(by G. F. Williams in 1924)

[A jog from Woodhull quadrangle, line 3]

T. 12 N., R. 1 W., near E $\frac{1}{4}$ cor. sec. 26, 100 ft. N. of crossroads, on NW. pier of small iron bridge over creek; top of clamp of bridge seat-----	714. 18
T. 12 N., R. 1 E., near W $\frac{1}{4}$ cor. sec. 30, in SE. angle of offset crossroads, 8 ft. N. and 25 ft. E. from junction of rd. W., inside fence, in concrete post; standard tablet stamped "Prim Trav Sta No 93 K 1924 W 32"-----	765. 852
Reference mark, in SW. corner of crossroads, in bench on E. side of first hedge tree; copper nail and washer-----	765. 62

[Continued in Woodhull quadrangle, line 3]

6. From point 1.9 miles south and 0.5 mile east from Wataga generally south along roads to crossroads 3.3 miles south and 1.2 miles east from Knoxville (by G. F. Williams in 1924)

[Continued from Woodhull quadrangle, line 3]

Wataga, 2.0 mi. S. and 0.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 27, T. 12 N., R. 2 E., 50 ft. S. and 25 ft. E. from crossroads, in root on W. side of N. tree of W. row of maple trees; copper nail and washer-----	820. 74
Wataga, 3.0 mi. S. and 0.5 mi. E. from, 2.2 mi. N. and 5.0 mi. E. from Galesburg, near E $\frac{1}{4}$ cor. sec. 33, T. 12 N., R. 2 E., in SW. corner of junction of T-rd. W., 1 ft. NW. of SE. end of SE. concrete wing wall of large iron pipe culvert under rd. W.; chiseled square-----	773. 56
Galesburg, 1.7 mi. N. and 5.0 mi. E. from, 260 ft. E. of SW. cor. sec. 34, T. 12 N., R. 2 E., 260 ft. E. of junction of T-rd. N., on N. head wall of concrete culvert; chiseled square-----	786. 13

[Jogs into Maquon quadrangle, line 1]

Galesburg, 0.8 mi. N. and 5.8 mi. E. from, 2.0 mi. N. of Knox, about 0.25 mi. W. of SE. cor. sec. 3, T. 11 N., R. 2 E., at iron bridge over Middle Creek, on NW. steel pier; top of bolt-----	694. 73
Knox, 0.6 mi. N. of, about 0.15 mi. N. and 0.25 mi. E. from center of sec. 15, T. 11 N., R. 2 E., on W. side of rd., 25 ft. N. of driveway, 5 ft. S. of N. end of W. concrete head wall of iron pipe culvert; chiseled square-----	784. 26

	Feet
Knox, 250 ft. E. of Atchison, Topeka & Santa Fe Ry. sta., 60 ft. E. of rd. crossing, 7.5 ft. N. of N. rail of N. track, on NW. corner of concrete base of semaphore block; chiseled square-----	660. 59
Knox sta., 0.6 mi. S. of, 1.2 mi. N. and 1.5 mi. E. from Knoxville, on S. side of E.-W. rd., opposite T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 98 K 1924 W 37" (recovered by U. S. C. & G. S. in 1935)-----	723. 457.
[Jogs into Maquon quadrangle, line 2]	
Knoxville, 1.3 mi. E. of, at crossing of Peoria Branch of Chicago, Burlington & Quincy R. R.; top of NE. rail-----	761. 1
Knoxville, 1.2 mi. E. of, 0.2 mi. S. of center of sec. 27, T. 11 N., R. 2 E., in SE. corner of junction of Chillicothe and Peoria highways, at NW. corner of E. head wall of concrete culvert under rd. S.; highest point of old chiseled angle-----	756. 78
Knoxville, 1.2 mi. E. thence 0.3 mi. S. from, near S $\frac{1}{4}$ cor. sec. 27, T. 11 N., R. 2 E., in SE. angle of junction of rd. E., inside fence, in concrete post; standard tablet stamped "Prim Trav Sta No 99 K 1924 W 38"-----	742. 500
Reference mark, in NE. angle of rd. junction, on E. head wall of concrete bridge; chiseled square-----	736. 29
Knoxville, 1.2 mi. E. thence 1.2 mi. S. from, about 0.15 mi. N. of S $\frac{1}{4}$ cor. sec. 34, T. 11 N., R. 2 E., on top of W. head wall of concrete bridge; chiseled square-----	700. 60
Knoxville, 1.2 mi. E. thence 1.7 mi. S. from, about 500 ft. N. of center of sec. 3, T. 10 N., R. 2 E., on top of E. head wall of concrete culvert under rd.; chiseled square-----	727. 74
Knoxville, 1.2 mi. E. thence 2.6 mi. S. from, 0.7 mi. N. of Barnett School, 0.25 mi. N. of center of sec. 10, T. 10 N., R. 2 E., 0.22 mi. N. of junction of rd. E., on W. side of rd., 6 ft. E. of fence line, in root on E. side of large maple tree in rd.; copper nail and washer-----	714. 01
7. From point 4.5 miles north and 0.3 mile west from Abingdon east along road 0.5 mile, thence south along Chicago, Burlington & Quincy Railroad to road crossing 3.4 miles south of Abingdon, thence along roads east and south to point 2.2 miles north and 2.8 miles east from St. Augustine (by G. F. Williams in 1924) ⁶⁰	
Abingdon, 4.8 mi. N. of post office at, near center of sec. 9, T. 10 N., R. 1 E., 60 ft. W. of intersection of C. B. & Q. R. R., on S. side of rd., 5 ft. N. and 1 ft. E. from right-of-way fences, on 2-in. iron pipe set 2.5 ft. in ground; top of cap-----	758. 82
Abingdon, 3.5 mi. N. of, 0.25 mi. S. of center of sec. 16, T. 10 N., R. 1 E., in SW. corner of rd. crossing, 50 ft. E. of center line of rd. N., 2 ft. N. of right-of-way fence corner, on 2-in. iron pipe set in 6-in. concrete base; top of cap-----	761. 20
Abingdon, 2.2 mi. N. of, near N $\frac{1}{4}$ cor. sec. 28, T. 10 N., R. 1 E., 25 ft. S. and 50 ft. W. from rd. crossing, at intersection of fence lines, on 2-in. iron pipe projecting 3 in. above ground; top of cap-----	732. 51
Abingdon, 1.0 mi. N. of post office, 0.18 mi. W. of N $\frac{1}{4}$ cor. sec. 33, T. 10 N., R. 1 E., in SW. corner of junction of T-rd. S., on top of S. head wall of small concrete culvert; chiseled square-----	728. 38
Abingdon, at intersection of Minneapolis and St. Louis R. R. and North Main Street; top of N. rail of N. track-----	748. 5

⁶⁰ An excessive error in this line has been disposed of by adjustment.

Abingdon, at NW. corner of intersection of Meek and Main Streets, at First National Bank Building, on NE. corner of first step; chiseled square	Feet
	756.11
Abingdon, at post office, near NW. corner of intersection of West Meek and Main Streets, on N. side of Meek Street, at NW. corner of concrete sidewalk in front of S. entrance, flush with walk; standard tablet stamped "39 W 1924" (recovered by U. S. C. & G. S. in 1935) --	751.977
Reference mark, in SW. corner of street intersection, 1.5 ft. S. and 20 ft. E. from NE. corner of Crouch and Company Store, 1.5 ft. E. of light pedestal, on concrete curb; chiseled square	754.59
Abingdon, at S. end of Main Street, 50 ft. W. of intersection of highway and South Main Street, on S. side of rd., in root on NE. side of 18-in. maple tree; copper nail and washer	717.87
Abingdon, 2.3 mi. S of, near quarter corner between secs. 9 and 16, T. 9 N., R. 1 E.; 310 ft. W. of track, at S. entrance to Indian Point School, on NW. corner of top concrete step; chiseled square	689.83
Abingdon, 3.4 mi. S. of, 2.8 mi. NW. of St. Augustine along R. R., about 0.25 mi. E. of NW. cor. sec. 21, T. 9 N., R. 1 E., 20 ft. S. of E.-W. rd., 20 ft. E. of E. rail of track, 3.5 ft. N. and 10 ft. W. from right-of-way fences, 1 ft. S. of crossing signpost, on 2-in. iron pipe set in concrete base; top of cap	684.44
St. Augustine, 2.7 mi. N. and 1.3 mi. E. from, near NE. cor. sec 21, T. 9 N., R. 1 E., 20 ft. S. and 35 ft. W. from crossroads, 10 ft. W. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 18 1912 40 W 1924"	682.394
Reference mark, 135 ft. E. of crossroads, on top of S. concrete head wall of culvert; chiseled square	682.12
St. Augustine, 2.7 mi. N. and 2.3 mi. E. from, near SE. cor. sec. 15, T. 9 N., R. 1 E., in NW. angle of crossroads, at fence corner, on 2-in. iron pipe driven into ground; top of cap	733.57
St. Augustine, 2.7 mi. N. and 2.8 mi. E. from, near N $\frac{1}{4}$ cor. sec. 23, T. 9 N., R. 1 E., 100 ft. W. of T-rd. S., on S. side of rd., in root on NE. side of large wild-cherry tree; copper nail and washer	714.20

[Continued in Avon quadrangle, line 8]

8. From point 0.6 mile north of Way School south and east along roads 0.8 mile (by H. S. Senseney in 1927)

Way School, near E $\frac{1}{4}$ cor. sec. 22, T. 9 N., R. 2 E., in NW. angle of junction of E.-W. rd., on E. end of walk to schoolhouse; chiseled square	628.20
---	--------

[Continued in Canton quadrangle, line 9] ^{oo}

^{oo} This line crosses the southwest corner of Maquon quadrangle but no bench marks were established along that portion of the line.

GALVA QUADRANGLE

[Latitude $41^{\circ}00'$ – $41^{\circ}15'$; longitude $90^{\circ}00'$ – $90^{\circ}15'$]

HENRY AND KNOX COUNTIES

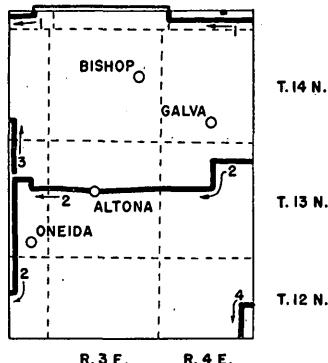


FIGURE 110.—Lines of leveling in Galva quadrangle.

1. From point near center of sec. 35, T. 15 N., R. 4 E., west along roads to point near center of sec. 34, T. 15 N., R. 2 E. (by H. S. Senseney in 1927)

[Continued from Toulon quadrangle, line 1]

T. 15 N., R. 4 E., near E $\frac{1}{4}$ cor. sec. 33, 30 ft. S. and 35 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 125 K 1924" (recovered in 1929; searched for but not recovered in 1940)

Reference mark, 21 ft. SW. of tablet, in root of tree; copper nail and washer

T. 15 N., R. 4 E., near W $\frac{1}{4}$ cor. sec. 33, 150 ft. E. of junction of T-rd. N., on NW. corner of culvert; chiseled square

T. 15 N., R. 3 E., near E $\frac{1}{4}$ cor. sec. 36, 3.0 mi. E. thence 0.5 mi. S. from Pleasant Valley School, on W. side of rd., at junction of T-rd. E., in hedge tree; copper nail and washer

[Jogs into Geneseo quadrangle, line 1]

Pleasant Valley School, 4.0 mi. W. thence 0.5 mi. S. from, near quarter corner between secs. 35 and 36, T. 15 N., R. 2 E., at junction of T-rd. W., 44 ft. W. of N.-S. hedge fence, 5 ft. E. of telephone pole, 1 ft. N. of wire fence; top of cap on 1-in. iron pipe

T. 15 N., R. 2 E., 0.27 mi. W. of center of sec. 35, at bridge over South Edwards River, on NW. pier; bolt

[Continued in Woodhull quadrangle, line 4]

2. From point 2 miles south and 2.2 miles east from Galva generally west along roads to crossroads 0.5 mile north and 4.7 miles west from Altona, thence south to point 2.3 miles south and 1.8 miles west from Oneida (by H. S. Senseney in 1927)

[Connects with line 2 in Toulon quadrangle]

Feet	
827.376	
827.21	
770.52	
818.23	

739.26	
695.71	

	Feet
Galva, 2.0 mi. S. and 2.0 mi. E. from, 1.7 mi. N. and 1.5 mi. W. from La Fayette, near SW. cor. sec. 1, T. 13 N., R. 4 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	777.40
Galva, 2.0 mi. S. and 1.0 mi. E. from, near NE. cor. sec. 10, T. 13 N., R. 4 E., 95 ft. S. of crossroads, on W. side of rd., in root of tree; copper nail and washer-----	814.94
Galva, 2.0 mi. S. of, at Potter School, near SW. cor. sec. 3, T. 13 N., R. 4 E., 30 ft. N. and 47 ft. E. from crossroads, 20 ft. E. of SW. corner of plank fence around schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 134 K 1924"-----	819.710
Reference mark, 18 ft. W. of tablet, in root of tree; copper nail and washer-----	819.45
Galva, 3.0 mi. S. of, near SE. cor. sec. 9, T. 13 N., R. 4 E., 175 ft. N. of junction of T-rd. E., on W. side of rd., on culvert; chiseled square-----	786.63
Galva, 3.5 mi. S. of, 6.5 mi. E. of Altona, near E $\frac{1}{4}$ cor. sec. 16, T. 13 N., R. 4 E., in SW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----	814.58
Altona, 5.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 16, T. 13 N., R. 4 E., in SE. angle of crossroads, 16 ft. E. of corner fence post, on N. side of fence; top of cap on 1-in. iron pipe-----	789.32
Altona, 4.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 17, T. 13 N., R. 4 E., 65 ft. S. and 25 ft. E. from crossroads, in corner of wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 133 K 1924"-----	739.963
Reference mark, 755 ft. W. of tablet, on S. side of rd., on culvert; chiseled square-----	731.07
Altona, 3.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 3 E., in NW. angle of crossroads, on culvert; chiseled square-----	752.89
Altona, 2.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 14, T. 13 N., R. 3 E., in SW. angle of crossroads, 6 ft. W. of corner fence post, on N. side of fence; top of cap on 1-in. iron pipe-----	748.62
Altona, 1.5 mi. E. of, 35 ft. N. and 50 ft. W. from quarter corner between secs. 14 and 15, T. 13 N., R. 3 E., in NW. angle of crossroads, in corner of iron fence, 12 ft. SW. of pump, in concrete post; standard tablet stamped "Prim Trav Sta No 132 K 1924"-----	746.763
Reference mark, 40 ft. NE. of tablet, in root of tree; copper nail and washer-----	745.27
Altona, 0.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 15, T. 13 N., R. 3 E., at NE. corner of bridge over tributary of Walnut Creek; chiseled square-----	723.55
Altona, 1.0 mi. W. of, 25 ft. N. and 25 ft. E. from center of sec. 17, T. 13 N., R. 3 E., in NE. angle of junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 131 K 1924"-----	755.673
Reference mark, 70 ft. SE. of tablet, in root of tree; copper nail and washer-----	756.73
Altona, 2.0 mi. W. of, near center of sec. 18, T. 13 N., R. 3 E., at NW. corner of crossroads, on culvert; chiseled square-----	771.38
Altona, 3.5 mi. W. of, near E $\frac{1}{4}$ cor. sec. 14, T. 13 N., R. 2 E., 30 ft. N. of junction of T-rd. E., on W. side of rd., in root of tree; copper nail and washer-----	784.28

	Feet
Altona, 0.5 mi. N. and 3.5 mi. W. from, near W. cor. secs. 12 and 13, T. 13 N., R. 2 E., at junction of T-rd. W., on E. side of rd., 3 ft. N. of corner fence post, on W. side of fence; top of cap on 1½-in. iron pipe	770.47
Altona, 0.5 mi. N. and 4.7 mi. W. from, 3.3 mi. N. and 1.2 mi. W. from Oneida, 30 ft. N. and 22 ft. W. from cor. secs. 10, 11, 14, and 15, T. 13 N., R. 2 E., in NW. angle of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 105 K 1924"	785.483
Reference mark, 21 ft. N. of tablet, on E. side of hedge, 4 in. underground; top of cap on 1½-in. iron pipe	784.37
Oneida, 2.3 mi. N. and 1.2 mi. W. from, near NW. cor. sec. 23, T. 13 N., R. 2 E., in SE. angle of crossroads, 16 ft. S. and 1.6 ft. W. from fence corner; top of cap on 1½-in. iron pipe	816.05
Oneida, 1.3 mi. N. and 1.2 mi. W. from, near SW. cor. sec. 23, T. 13 N., R. 2 E., 280 ft. N. of crossroads, on E. side of rd., on culvert; chiseled square	802.26
Oneida, 0.3 mi. N. and 1.2 mi. W. from, near NW. cor. sec. 35, T. 13 N., R. 2 E., 30 ft. S. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 104 K 1924"	819.840
Reference mark, 550 ft. S. of tablet, on W. side of rd., at gate, in root of tree; copper nail and washer	819.12
Oneida, 0.7 mi. S. and 1.2 mi. W. from, 30 ft. S. of N. cor. secs. 2 and 3, T. 12 N., R. 2 E., in root of tree; copper nail and washer	809.49
Oneida, 1.2 mi. S. and 1.2 mi. W. from, near quarter corner between secs. 2 and 3, T. 12 N., R. 2 E., on N. side of rd., 25 ft. E. of junction of T-rd. S., in root of tree; copper nail and washer	817.20
Oneida, 2.7 mi. S. and 1.2 mi. W. from, near SW. cor. sec. 11, T. 12 N., R. 2 E., 25 ft. N. and 30 ft. E. from junction of T-rd. N., in corner of wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 103 K 1924"	826.910
Reference mark, 470 ft. W. of tablet, on N. side of rd., on culvert; chiseled square	827.78

[Continued in Woodhull quadrangle, line 5]

3. From crossroads 0.5 mile north and 4.7 miles west from Altona north along road 3 miles to crossroads, thence west 0.1 mile to point 1 mile south and 3.7 miles east from Woodhull (by H. S. Senseney in 1927)

Altona, 1.5 mi. N. and 4.7 mi. W. from, near SE. cor. sec. 3, T. 13 N., R. 2 E., in NW. angle of crossroads, 10.6 ft. N. of corner fence post, on E. side of fence; top of cap on 1-in. pipe	775.93
Altona, 2.5 mi. N. and 4.7 mi. W. from, near NE. cor. sec. 3, T. 13 N., R. 2 E., in SW. angle of crossroads, in root of tree; nail	775.14
Altona, 3.5 mi. N. and 4.7 mi. W. from, near NW. cor. sec. 35, T. 14 N., R. 2 E., 0.4 mi. S. and 3.2 mi. W. from Nekoma, 1.0 mi. S. and 3.8 mi. E. from Woodhull, 30 ft. S. and 33 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 106 K 1924"	799.038
Reference mark, 90 ft. E. of tablet, on S. side of rd., in root of tree; copper nail and washer	798.78

[Continued in Woodhull quadrangle, line 7]

4. From point near Fair View School west 0.5 mile to crossroads, thence south 1.8 miles to point 2.8 miles north and 1.5 miles east from Truro (by H. S. Sennedy in 1927)

[Continued from Toulon quadrangle, line 3]

Fair View School, 0.5 mi. W. thence 1.0 mi. S. from, 1.5 mi. S. and 4.5 mi. E. from Victoria, 3.5 mi. N. and 1.5 mi. E. from Truro, near center of sec. 23, T. 12 N., R. 4 E., in NE. angle of junction of T-rd. E., 19 ft. N. of fence corner, on W. side of fence; top of cap on 1-in. iron pipe-----

Feet
746.55

[Continued in Maquon quadrangle, line 3]

GLASFORD QUADRANGLE
 [Latitude $40^{\circ}30' - 40^{\circ}45'$; longitude $89^{\circ}45' - 90^{\circ}00'$]
FULTON, KNOX, PEORIA, AND TAZEWELL COUNTIES

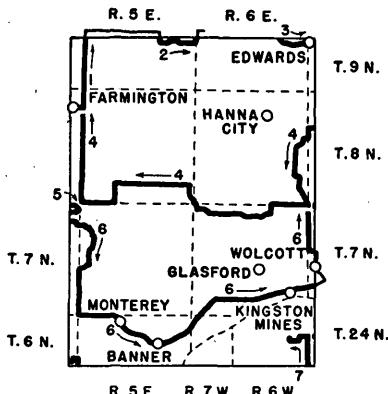


FIGURE 111.—Lines of leveling in Glasford quadrangle.

1. From point in Farmington along highways east 0.7 mile, thence north along Fulton-Peoria and Knox-Peoria county line to point 1.9 miles south and 1 mile west from Elmwood (by C. E. Walker in 1927)

[Connects with line 1 in Canton quadrangle]

Farmington, 1.2 mi. E. of, near SE. cor. sec. 1, T. 8 N., R. 4 E., at W. fork of State Highway, on N. side of rd., on W. end of concrete culvert; chiseled square

Feet
774.72

Farmington, 1.2 mi. E. thence 0.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 6, T. 8 N., R. 5 E., in SE. angle of intersection of private rd., on concrete culvert; chiseled square

746.19

Farmington, 1.2 mi. E. thence 1.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 31, T. 8 N., R. 5 E., 1,150 ft. S. of T-rd. E., 50 ft. E. of highway, 200 ft. N. of fence corner, on top of knoll, in fence line, in concrete post; standard tablet stamped "1 WA 1927"

699.556

Reference mark, 1,200 ft. S. of junction of T-rd. E., 70 ft. N. and 30 ft. W. from fence corner, on E. side of State Highway, on concrete culvert; chiseled square

697.25

Farmington, 1.2 mi. E. thence 2.8 mi. N. from, 1.0 mi. W. thence 2.8 mi. S. from Elmwood, 0.25 mi. S. of NW. cor. sec. 30, T. 9 N., R. 5 E., 1,800 ft. N. of crossroads, on E. side of highway, in front of barn of James Rodgers, on S. end of concrete culvert; chiseled square

700.30

[Continued in Elmwood quadrangle, line 4]

2. South, east, and north along roads in secs. 23 and 24, T. 9 N., R. 5 E. (by C. E. Walker in 1927)

[A jog from Elmwood quadrangle, line 4]

T. 9 N., R. 5 E., near center of sec. 23, on N. side of rd., at concrete bridge over Clark Branch, on N. side of floor; chiseled square-----	Feet 592.73
T. 9 N., R. 5 E., near E $\frac{1}{4}$ cor. sec. 24, 0.5 mi. S. of Moore School, 15 ft. N. and 25 ft. W. from junction of T-rd. W., on top of N. end of cylindrical concrete culvert; chiseled square-----	664.01

[Continued in Elmwood quadrangle, line 4]

3. From point 2 miles northwest of Edwards southeast along roads to Edwards (by C. E. Walker in 1927)

[Continued from Elmwood quadrangle, line 4]

Edwards, 0.4 mi. W. of, at highway bridge over Kickapoo Creek, on SW. concrete wing wall; chiseled square-----	507.88
Edwards, 75 ft. S. of SE. corner of Chicago, Burlington & Quincy R. R. sta., on property of R. Monroe, inside yard fence; standard iron post with bronze cap stamped "Prim Trav Sta No 14 1912" (recovered in 1929)-----	503.506
Reference mark, 547 ft. W. of tablet, on NW. wing wall of concrete bridge over creek; chiseled square (recovered in 1929)-----	503.24

[Continued in Peoria quadrangle, line 8]

4. From point 0.7 mile south and 2.6 miles east from Hanna City along roads generally south to Harkers Corners School, thence west to road junction 2.3 miles east of Norris, thence north and west to point in Farmington (by C. E. Walker in 1927)

[Continued from Peoria quadrangle, line 8]

Hanna City, 1.2 mi. S. and 2.2 mi. E. from, 1.0 mi. N. and 2.2 mi. E. from Smithville, near W $\frac{1}{4}$ cor. sec. 18, T. 8 N., R. 7 E., on E. side of rd., 100 ft. N. of right-angle bend, on concrete culvert; chiseled square-----	675.68
Smithville, 1.5 mi. E. of, 2.8 mi. NW. of Harkers Corners School, 1,100 ft. W. of center of sec. 24, T. 8 N., R. 6 E. 30 ft. S. and 40 ft. E. from junction of T-rd. S., 20 ft. E. of concrete fence post, in concrete post; standard tablet stamped "6 WA 1927"-----	685.006
Harkers Corners School, 1.8 mi. NW. of, 0.2 mi. W. of center of sec. 25, T. 8 N., R. 6 E., 40 ft. N. and 20 ft. E. from junction of T-rd. N., 15 ft. N. of fence corner, in root on SW. side of second 14-in. maple tree; copper nail and washer-----	666.81
Harkers Corners School, about 600 ft. E. of, 31 ft. S. and 23 ft. W. from NE. cor. sec. 1, T. 7 N., R. 6 E., at crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 12 1912"-----	630.613
Reference mark, 30 ft. S. and 20 ft. W. from crossroads, on concrete culvert; chiseled square-----	630.94
Harkers Corners School, 1.0 mi. W. of, 2.7 mi. S. thence 1.0 mi. E. from Smithville, near NW. cor. sec. 1, T. 7 N., R. 6 E., 25 ft. S. and 40 ft. E. from crossroads, 20 ft. E. of fence corner, in fence line, in root on N. side of 8-in. hedge tree; copper nail and washer-----	635.15
Smithville, 3.2 mi. S. of, at Saylor School, near E $\frac{1}{4}$ cor. sec. 3, T. 7 N., R. 6 E., in NW. angle of crossroads, on head wall of concrete culvert; chiseled square-----	622.98

	Feet
T. 7 N., R. 6 E., 600 ft. S. of E $\frac{1}{4}$ cor. sec. 4, 30 ft. N. and 20 ft. W. from crossroads, 8 ft. W. of 14-in. hickory tree, 2 ft. inside fence corner, in concrete post; standard tablet stamped "10 WA 1927"__	622.028
Reference mark, 20 ft. S. and 40 ft. W. from crossroads, in root on N. side of 10-in. hickory tree; copper nail and washer_____	621.21
T. 7 N., R. 6 E., 1,800 ft. E. of W $\frac{1}{4}$ cor sec. 4, 850 ft. E. of Todd School, 100 ft. S. and 40 ft. E. from crossroads, in root on NW. side of 36-in. elm tree; copper nail and washer_____	623.09
T. 7 N., R. 6 E., near center of sec. 6, at SW. corner of highway bridge over creek, on concrete wing wall; chiseled square_____	565.31
T. 7 N., R. 6 E., 17 ft. S. and 2.5 ft. E. from NW. cor. sec. 6, at lane to residence of G. W. Keel, 1 ft. SE. of corner fence post; standard iron post with bronze cap stamped "Prim Trav Sta No 13 1912"__	648.571
Reference mark, 400 ft. E. of section corner, in root on SE. side of lone 30-in. oak tree; copper nail and washer_____	647.53
T. 8 N., R. 5 E., near S $\frac{1}{4}$ cor. sec. 25, in NE. angle of junction of T-rd. N., at Pennsylvania Ridge Church, at S. entrance, on top of SW. corner of sidewalk; chiseled square_____	675.78
T. 8 N., R. 5 E., near NE. cor. sec. 34, at crossroads, 90 ft. S. and 15 ft. W. from intersection, on top of concrete milkstand; chiseled square_____	686.99
T. 8 N., R. 5 E., near NW. cor. sec. 34, about 1,200 ft. SE. of church, 20 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "9 WA 1927 Reset 1938" ^a __	698.249
Reference mark, 35 ft. S. and 30 ft. W. from crossroads, in root on S. side of 30-in. elm tree; copper nail and washer_____	697.54
T. 8 N., R. 5 E., 1,300 ft. W. of E. cor. secs. 29 and 32, on W. side of rd., 4 ft. inside fence corner, in root on NE. side of 8-in. hickory tree; copper nail and washer_____	697.19
T. 7 N., R. 5 E., 0.25 mi. W. of NE. cor. sec. 5, 4.1 mi. E. of Norris, 200 ft. W. of junction of T-rd. N., on S. side of rd., on S. end of 18-in. concrete cylindrical culvert; chiseled square_____	668.49
Norris, 2.3 mi. E. of, 1.2 mi. E. thence 5.0 mi. S. from Farmington, near SW. cor. sec. 31, T. 8 N., R. 5 E., 20 ft. N. and 40 ft. E. from junction of T-rd. E., 15 ft. E. of fence corner, inside fence line, in concrete post; standard tablet stamped "8 WA 1927"__	700.441
Reference mark, 30 ft. S. and 15 ft. E. from rd. junction, in root on W. side of 22-in. oak tree; copper nail and washer_____	700.24
Farmington, 1.2 mi. E. thence 4.3 mi. S. from, 0.35 mi. S. of NE. cor. sec. 36, T. 8 N., R. 4 E., on Grecans land, about 400 ft. N. of T-rd. W., 200 ft. S. of house, in root on SE. side of 30-in. elm tree; copper nail and washer_____	699.44
Farmington, 1.2 mi. E. thence 3.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 30, T. 8 N., R. 5 E., 100 ft. N. of junction of T-rd. E., on SE. wing wall of bridge; chiseled square_____	663.53
Farmington, 1.2 mi. E. thence 2.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 19, T. 8 N., R. 5 E., 45 ft. N. and 30 ft. E. from crossroads, 20 ft. N. of fence corner in field, in concrete post; standard tablet stamped "7 WA 1927"__	762.250

^a In 1938 this bench mark was moved to a point 32.5 ft. south and 98.5 ft. east from the crossroads, 6 in. north of south fence, and reset at an elevation 0.980 ft. higher than that originally determined. The figures given represent the new elevation.

Reference mark, 30 ft. S. and 20 ft. W. from crossroads, inside fence, in root on E. side of 24-in. maple tree; copper nail and washer--
Farmington, 1.2 mi. E. thence 1.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 18, T. 8 N., R. 5 E., 25 ft. S. and 25 ft. E. from junction of T-rd. E., on concrete base of corner fence post; chiseled square-----

Feet
762.22
759.32

[Connects with line 1 in Canton quadrangle]

5. Along roads east and northwest in sec. 1, T. 7 N., R. 4 E. (by C. E. Walker in 1927)

[A jog from Canton quadrangle, line 7]

Norris, 2.3 mi. E. of, near center of NE $\frac{1}{4}$ sec. 1, T. 7 N., R. 4 E., at base of hill, in SW. angle of rd. junction, on N. side of 28-in. elm tree; spike-----

603.41

[Continued in Canton quadrangle, line 7]

6. From point 1.5 miles east of Brereton generally south along roads to State Highway 9, thence southeast and northeast to point 1.7 miles east of Kingston Mines, thence along roads northwest and north to crossroads near Harkers Corners School (by C. E. Walker in 1927)

[Continued from Canton quadrangle, line 7]

Brereton, 3.3 mi. SE. of, about 0.6 mi. N. of Wolf School, 0.25 mi. S. of center of sec. 7, T. 7 N., R. 5 E., at right-angle bend in rd., near house, in fence line, in root on W. side of 14-in. hickory tree; copper nail and washer-----

672.59

Wolf School, 55 ft. NE. of NE corner of, 2.8 mi. N. and 2.8 mi. E. from Canton, 2,000 ft. NE. of center of sec. 18, T. 7 N., R. 5 E., on W. side of rd., in fence corner, in concrete post; standard tablet stamped "11 WA 1927"-----

659.014

Reference mark, at entrance to school, on end of concrete walk; chiseled square-----

657.95

Canton, 1.7 mi. N. and 2.6 mi. E. from, about 0.2 mi. N. of center of sec. 19, T. 7 N., R. 5 E., in valley, 100 ft. S. of rd. junction, on W. concrete head wall; chiseled square-----

580.21

Canton, 1.0 mi. N. and 2.0 mi. E. from, near SW. cor. sec. 19, T. 7 N., R. 5 E., 100 ft. N. of junction of T-rd. W., in front of farmhouse of Harry Sebree, on concrete walk; chiseled square-----

647.21

Canton, 0.2 mi. N. and 2.0 mi. E. from, 1.8 mi. N. and 2.4 mi. W. from Monterey, 0.25 mi. N. of SE. cor. sec. 25, T. 7 N., R. 4 E., 25 ft. N. and 25 ft. W. from T-junction of E.-W. rd., in field, 8 ft. N. of fence corner, in concrete post; standard tablet stamped "12 WA 1927"-----

639.653

Reference mark, 15 ft. N. and 20 ft. E. from rd. junction, on end of cylindrical concrete culvert; chiseled square-----

637.88

Monterey, 0.6 mi. NW. thence 2.2 mi. W. from, 300 ft. N. and 150 ft. E. from SW. cor. sec. 31, T. 7 N., R. 5 E., at right-angle bend in highway, in field, in root on NW. side of 48-in. poplar tree; copper nail and washer-----

603.80

Monterey, 0.6 mi. NW. thence 1.0 mi. W. from, near SW. cor. sec. 32, T. 7 N., R. 5 E., in NE. corner of junction of T-rd. N., at SW. corner of cemetery, on concrete culvert; chiseled square-----

589.06

Monterey, at W. end of entrance to Methodist Church, in bottom concrete step; standard tablet stamped "13 WA 1927"-----

604.644

	Feet
Reference mark, in front of church, on end of concrete walk; chiseled square	604.01
Monterey, 0.8 mi. SE. of, 1.5 mi. NW. of Banner, near NW. cor. sec. 10, T. 6 N., R. 5 E., 20 ft. S. and 15 ft. E. from junction of T-rd. S., on concrete culvert; chiseled square	600.37
Banner, 60 ft. SW. of intersection of Main and Bridge Streets, in NE. corner of yard of Gusta Fidler; standard iron post with bronze cap stamped "Prim Trav Sta No 20 1910"	474.404
Reference mark, 170 ft. W. of intersection of Main and Bridge Streets, on S. side of highway, on E. concrete head wall; chiseled square	473.90
Banner, 1.3 mi. NE. of, in NE $\frac{1}{4}$ sec. 12, T. 6 N., R. 5 E., on N. side of highway, at bend, near small cottage, 6 in. below surface of road, on concrete culvert; chiseled square	459.12
Banner, 2.3 mi. NE. of, in NW $\frac{1}{4}$ sec. 6, T. 6 N., R. 6 E., near Fulton-Peoria county line, on SE. side of highway, on concrete culvert; chiseled square	476.61
Banner, 3.3 mi. NE. of, 4.9 mi. SW. of Kingston Mines, 2.0 mi. S. and 2.5 mi. W. from Glasford, SE. of center of sec. 31, T. 7 N., R. 6 E., 40 ft. N. and 50 ft. W. from rd. junction, in fence corner, in concrete post; standard tablet stamped "14 WA 1927"	467.554
Reference mark, 50 ft. E. of rd. junction, on S. side of highway, on concrete culvert; chiseled square	467.15
Glasford, 1.5 mi. S. and 1.9 mi. W. from, about 0.2 mi. E. of NW. cor. sec. 32, T. 7 N., R. 6 E., at E. end of bend in highway, 20 ft. S. and 30 ft. W. from junction of T-rd. N., on culvert; chiseled square	487.71
Glasford, 1.5 mi. S. and 0.7 mi. W. from, about 0.3 mi. E. of NW. cor. sec. 33, T. 7 N., R. 6 E., on S. side of highway, on concrete head wall of culvert; chiseled square	449.70
Glasford, 1.5 mi. S. of, 2.3 mi. SW. of Kingston Mines, near SE. cor. sec. 28, T. 7 N., R. 6 E., on land of Clarence Martin, in NE. angle of junction of T-rd. N., 500 ft. S. of farmhouse, 15 ft. E. of fence corner, in fence line, in concrete post; standard tablet stamped "15 WA 1927"	454.796
Reference mark, 200 ft. E. of rd. junction, on N. side of highway, on concrete culvert; chiseled square	447.86
Kingston Mines, 1.0 mi. SW. of, in SW $\frac{1}{4}$ sec. 26, T. 7 N., R. 6 E., 300 ft. E. of junction of rd. N., on N. side of highway, on concrete culvert; chiseled square	490.80
Kingston Mines, at N. edge of, 50 ft. S. and 20 ft. W. from crossroads, on concrete culvert; chiseled square	501.60
[Jogs into Peoria quadrangle, line 10]	
Wolcott, E. of Toledo, Peoria & Western R. R. sta., 100 ft. W. of crossing, on second stone of SW. trestle pier; chiseled square	483.20
Wolcott, 1.1 mi. N. of, 2.5 mi. S. of Harkers Corners School, near W $\frac{1}{4}$ cor. sec. 18, T. 7 N., R. 7 E., 20 ft. N. and 50 ft. E. from rd. junction, inside fence line, in concrete post; standard tablet stamped "17 WA 1927"	610.490
Reference mark, 10 ft. S. and 20 ft. W. from rd. junction, in root on N. side of 40-in. oak tree; copper nail and washer	611.60
Harkers Corners School, 1.5 mi. S. of, near E $\frac{1}{4}$ cor. sec. 2, T. 7 N., R. 6 E., in SW. angle of junction of T-rd. W., on concrete culvert; chiseled square	617.61

7. From point 0.3 mile northwest thence 2.5 miles north from Parkland along roads north and west to point 2.6 miles south of Kingston Mines (by G. W. Moore in 1929)

[Continued from Manito quadrangle, line 3]

Parkland, 0.3 mi. NW. thence 3.0 mi. N. from, 3.5 mi. S. and 1.0 mi. E. from Kingston Mines, at Porter School, near SE. cor. sec. 22, T. 24 N., R. 6 W., 95 ft. N. and 15 ft. W. from crossroads, 75 ft. N. and 0.5 ft. W. from fence corner, in root on E. side of 14-in. boxelder tree; copper nail and washer	Feet 480. 51
Kingston Mines, 2.5 mi. S. and 1.0 mi. E. from, near S. cor. secs. 14 and 15, T. 24 N., R. 6 W., 30 ft. N. of junction of T-rd. S., on E. side of private driveway, in root on S. side of 8-in. locust tree; copper nail and washer	486. 54
Kingston Mines, 2.6 mi. S. of, about 600 ft. S. and 12 ft. W. from NE. cor. sec. 21, T. 24 N., R. 6 W., near Gales Landing, near NE. corner of land of John and Miriam Brewer, about 700 ft. NE. of Brewer farmhouse, on SE. side of highway along foot of bluffs E. and NE. of upper part of Spring Lake, 2.1 ft. NW. of SE. fence line; U. S. C. E. B. M. 47	452. 742
cap on iron post	448. 772
bolt in limestone block	

GOOD HOPE QUADRANGLE

[Latitude $40^{\circ}30'$ – $40^{\circ}45'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

McDONOUGH AND WARREN COUNTIES

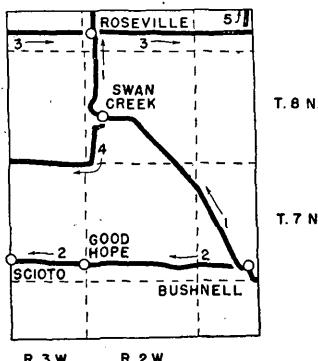


FIGURE 112.—Lines of leveling in Good Hope quadrangle.

1. From point 0.5 mile south and 0.5 mile east from Bushnell west and northwest along road and Toledo, Peoria & Western Railroad to Bushnell, thence northwest along Chicago, Burlington & Quincy Railroad to point 1.2 miles north of Roseville (by R. G. Clinite in 1914)

[Connects with line 6 in Avon quadrangle]

Bushnell, in SE. corner of West End Park; standard iron post with bronze cap stamped "656"⁶²-----

Feet
654. 850

Bushnell, 3.0 mi. NW. of, 2.3 mi. SE. of Walnut Grove, 350 ft. W. of crossing of E.-W. rd., in NW. angle of crossroads, opposite Maple Grove School, 2 ft. S. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "659"-----

657. 758

Walnut Grove, 1.4 mi. NW. of, 2.9 mi. SE. of Youngstown, 370 ft. E. of crossing of McDonough-Warren county-line rd., 130 ft. W. of junction of T-rd. S., 20 ft. S. of rd.; standard iron post with bronze cap stamped "731"-----

730. 020

Youngstown, 100 ft. N. of sta., 2.0 mi. SE. of Swan Creek, on NE. side of street running parallel to track, 2 ft. SW. of fence; standard iron post with bronze cap stamped "752"-----

750. 630

Swan Creek, 1.9 mi. NW. of, 2.8 mi. S. of Roseville, in SW. angle of crossing of E.-W. rd., 54 ft. W. of track, 2 ft. N. of rd. fence; standard iron post with bronze cap stamped "765"-----

763. 517

Roseville, 750 ft. N. of sta., 47 ft. SE. of milepost 177, 50 ft. S. of center line of street, 30 ft. S. of 46-in. maple tree, near NW. corner of cemetery; standard iron post with bronze cap stamped "733"-----

731. 365

[Continued in Monmouth quadrangle, line 1]

2. From Bushnell west along Toledo, Peoria & Western Railroad to Sciota (by R. G. Clinite in 1914)

Bushnell, 1.7 mi. W. of, in SE. angle of rd. crossing, in root on N. side of lone 36-in. maple tree; rail spike-----

622. 69

⁶²In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "E 34 1934," elevation 653.877 ft. The iron post was found to have been disturbed.

Bushnell, 2.7 mi. W. of, 1.9 mi. E. of Scottsburg, in SE. angle of crossing of range-line rd., 25 ft. S. of S. right-of-way line, 2 ft. W. of hedge fence; standard iron post with bronze cap stamped "641" (recovered by U. S. C. & G. S. in 1935)-----	Feet 639. 474
Scottsburg, 1.2 mi. W. of, 3.0 mi. E. of Good Hope, in SE. angle of rd. crossing, 28 ft. S. of S. right-of-way line, 2 ft. W. of rd. fence; standard iron post with bronze cap stamped "686" (recovered by U. S. C. & G. S. in 1935)-----	685. 228
Good Hope, 100 ft. S. and 100 ft. E. from sta., in NE. corner of lot belonging to H. Robbins; standard iron post with bronze cap stamped "715" (recovered by U. S. C. & G. S. in 1935)-----	713. 706
Good Hope, 3.0 mi. W. of, 1.0 mi. E. of Sciota, in NW. angle of rd. crossing, 5 ft. N. of N. right-of-way line, 2 ft. E. of rd. fence; standard iron post with bronze cap stamped "748" (recovered by U. S. C. & G. S. in 1935)-----	746. 829

[Continued in La Harpe quadrangle, line 2]

3. From point near northwest corner sec. 33, T. 9 N., R. 3 W., east along road by way of Roseville to point near northwest corner sec. 34, T. 9 N., R. 1 W. (by R. G. Clinite in 1914)

[Continued from La Harpe quadrangle, line 3]

Roseville, 3.8 mi. W. of, near NE. cor. sec. 33, T. 9 N., R. 3 W., in SW. angle of junction of T-rd. W., 150 ft. S. of junction of rd. E., 2 ft. N. and 20 ft. W. from fence corner; standard iron post with bronze cap stamped "752"-----	750. 644
Roseville, 1.3 mi. W. of, near S $\frac{1}{4}$ cor. sec. 25, T. 9 N., R. 3 W., on N. side of rd., at E. end of row of sycamore trees, in root of 38-in. sycamore tree; copper nail and washer-----	760. 60
Roseville, 3.8 mi. E. of, near N $\frac{1}{4}$ cor. sec. 35, T. 9 N., R. 2 W., in SW. angle of crossroads, 2 ft. N. of fence; standard iron post with bronze cap stamped "706"-----	704. 738
Roseville, 4.3 mi. E. of, near SW. cor. sec. 25, T. 9 N., R. 2 W., in NE. angle of junction of T-rd. N., at E. end of gate, in root of Osage-orange tree; copper nail and washer-----	703. 81
Roseville, 6.0 mi. E. of, in NE $\frac{1}{4}$ sec. 31, T. 9 N., R. 1 W., in NW. angle of rd. junction, on NW. stone wing wall of bridge over Nigger Creek; chiseled square-----	642. 08
Roseville, 6.8 mi. E. of, 1.5 mi. NE. of Greenbush, near N $\frac{1}{4}$ cor. sec. 32, T. 9 N., R. 1 W., in SE. angle of crossroads, 3 ft. N. and 20 ft. E. from fence corner; standard iron post with bronze cap stamped "689" (recovered in 1920)-----	688. 155

[Connects with line 4 in Avon quadrangle]

4. From Swan Creek along roads alternately south and west to south quarter corner sec. 31, T. 8 N., R. 2 W., thence west along McDonough-Warren county line to point 5 miles north of Sciota (by R. G. Clinite in 1914)

Swan Creek, 2.5 mi. S. and 1.0 mi. W. from, 5.0 mi. N. of Good Hope, near cor. Tps. 7 and 8 N., Rs. 2 and 3 W., in SE. angle of offset cross-roads, 40 ft. E. of range line, 2 ft. N. of fence; standard iron post with bronze cap stamped "764"-----	763. 377
---	----------

624 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Swan Creek, 2.5 mi. S. and 4.0 mi. W. from, in SE. cor. sec. 33, T. 8 N., R. 3 W., in NW. angle of offset crossroads, at W. side of concrete retaining wall of small bridge, on top of S. end; chiseled square Feet
782.39

[Continued in La Harpe quadrangle, line 4]

5. From crossroads at quarter corner between secs. 29 and 32, T. 9 N., R. 1 W., along roads east 1.3 miles, thence north 1.3 miles to point near center of southeast quarter sec. 21, T. 9 N., R. 1 W. (by R. G. Clinite in 1920)

Greenbush, 2.4 mi. N. and 1.5 mi. E. from, 4.6 mi. SE. of Berwick, 0.1 mi. N. and 0.25 mi. E. from S $\frac{1}{4}$ cor. sec. 21, T. 9 N., R. 1 W., in front of farmhouse standing on E. side of rd., on N. corner at W. end of concrete walk; chiseled cross 674.96

[Continued in Monmouth quadrangle, line 2]

GREENFIELD QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $90^{\circ}00'$ – $90^{\circ}15'$]

GREENE, JERSEY, AND MACOUPIN COUNTIES

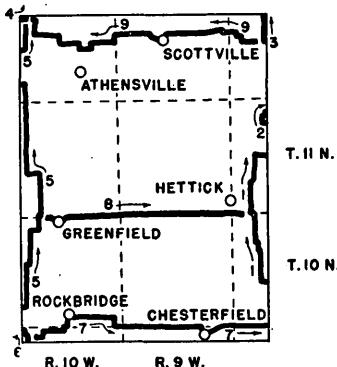


FIGURE 113.—Lines of leveling in Greenfield quadrangle.

1. From point 0.5 mile south and 0.5 mile east from Enos along roads west 0.5 mile, thence north and east to point 2 miles east and 2.5 miles north from Hettick (by E. O. Brooks in 1923)

[Continued from Carlinville quadrangle, line 3]

Enos, 0.5 mi. S. of, 0.25 mi. S. of center of sec. 20, T. 10 N., R. 8 W., in NW. angle of junction of T-rd. N., at farmhouse, 20 ft. N. and 2 ft. E. from corner of yard fence, in root on E. side of 12-in. elm tree; copper nail and washer	Feet 614.79
Enos, 30 ft. N. and 15 ft. W. from crossing of Chicago & Alton R. R., 330 ft. W. of sta., on W. side of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 5 W 1923 25 EB" ^{as}	615.177
Reference mark, 65 ft. N. and 45 ft. E. from tablet, in root on W. side of 12-in elm tree; copper nail and washer	615.32
Enos, about 1.1 mi. N. of, about 600 ft. S. of N $\frac{1}{4}$ cor. sec. 17, T. 10 N., R. 8 W., in SE. angle of junction of E.-W. rd., in fence line, in root on E. side of 12-in. mulberry tree; copper nail and washer	592.43
Enos, 2.0 mi. N. of, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 8, T. 10 N., R. 8 W., on E. side of rd., 80 ft. N. and 20 ft. E. from junction of T-rd. W., in root on W. side of twin wild-cherry trees; copper nail and washer	590.76
Enos, 3.7 mi. N. of, 0.5 mi. S. an 1.0 mi. E. from Hettick, near SE. cor. sec. 31, T. 11 N., R. 8 W., 35 ft. N. and 20 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 6 1923 26 EB" (recovered in 1928)	525.009

^{as} In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 102 1935," elevation 612.561 ft.

Reference mark, 1,010 ft. E. of tablet, at SW. corner of W. approach to bridge over Hodgers Creek, on top of concrete pillar; chiseled square	Feet 527.87
Hettick, about 1 mi. in air line E. of, SW. of W $\frac{1}{4}$ cor. sec. 32, T. 11 N., R. 8 W., in center of rd., 20 ft. S. of fork, in root on E. side of 24-in. white-oak tree; copper nail and washer	591.17
Hettick, 1.4 mi. NE. of, near E $\frac{1}{4}$ cor. sec. 30, T. 11 N., R. 8 W., in NW. angle of junction of T-rd. W., in center of top of W. concrete head wall of culvert; chiseled square	607.13
Hettick, 1.8 mi. NE. thence 0.5 mi. N. from, near center of SW $\frac{1}{4}$ sec. 20, T. 11 N., R. 8 W., in NW. corner of yard of farmhouse, 40 ft. S. and 40 ft. E. from junction of T-rd. E., in root on NE. side of 24-in. maple tree; copper nail and washer	578.66

[Continued in Carlinville quadrangle; see line 4]

2. From point 1.2 miles south and 0.4 mile west from Palmyra along roads west 0.2 mile, north 0.2 mile, and east 0.2 mile (by E. O. Brooks in 1923)

[A jog from Carlinville quadrangle, line 5]

Palmyra, 1.6 mi. SW. of, near center of NE $\frac{1}{4}$ sec. 8, T. 11 N., R. 8 W., 40 ft. S. and 40 ft. W. from junction of N.-S. rd., 3 ft. W. of fence line, in root on N. side of 24-in. hickory tree; copper nail and washer	662.41
---	--------

[Continued in Carlinville quadrangle, line 5]

3. From point 0.9 mile west of Modesto along roads west 0.1 mile, thence north 1.5 miles (by E. O. Brooks in 1923)

[Connects with line 5 in Carlinville quadrangle]

Modesto, 1.0 mi. W. of, near N. cor. secs. 20 and 21, T. 12 N., R. 8 W., on S. side of rd., opposite T-rd. N., 2 ft. N. of corner of right-of-way fence and fence S., in concrete post; standard tablet stamped "Prim Trav Sta No 9 W 1923 32 EB" (recovered in 1928)	690.107
Reference mark, 50 ft. N. and 40 ft. E. from tablet, in NE. angle of rd. junction, at fence corner, in root on SW. side of 24-in. Osage-orange tree; copper nail and washer (recovered in 1928)	689.66
Modesto, 1.0 mi. W. thence 1.0 mi. N. from, near W. cor. secs. 9 and 16, T. 12 N., R. 8 W., opposite T-rd. W., in fence line, in root on SE. side of 24-in. Osage-orange tree; copper nail and washer	695.50

[Continued in Jacksonville quadrangle, line 2]

4. From point east of center of sec. 7, T. 12 N., R. 10 W., along roads east 0.3 mile, thence north 0.1 mile (by S. R. Archer in 1924)

[Continued from Roodhouse quadrangle, line 2]

T. 12 N., R. 10 W., about 800 ft. S. of W $\frac{1}{4}$ cor. sec. 8, 15 ft. N. and 13 ft. E. from junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 50 1911 22 A" (recovered in 1928)	583.257
Reference mark, 190 ft. E. of iron post, 30 ft. N. of right-angle turn N. in rd., on W. side of rd., 15 ft. N. of fence corner, in root on NW. side of 10-in. locust tree; copper nail and washer (recovered in 1928)	585.43

[Continued in Jacksonville quadrangle, line 4]

5. From point 0.5 mile north and 2.4 miles west from Rockbridge along roads alternately east and north to point 0.9 mile west of Greenfield, thence north and west to road junction near quarter corner between secs. 7 and 8, T. 12 N., R. 10 W. (by E. O. Brooks in 1924).

[Continued from Roodhouse quadrangle, line 4]

	Feet
Rockbridge, 1.5 mi. N. and 2.2 mi. W. from, 1.8 mi. W. and 3.8 mi. S. from Greenfield, 0.25 mi. W. of SE. cor. sec. 19, T. 10 N., R. 10 W., on E. side of rd., in SW. corner of yard of farmhouse, 3 ft. N. and 20 ft. E. from fence corner, in root on N. side of 18-in. hard-maple tree; copper nail and washer-----	534.40
Greenfield, 1.8 mi. W. and 2.5 mi. S. from, near center of SE $\frac{1}{4}$ sec. 18, T. 10 N., R. 10 W., in SE. angle of rd. junction, 18 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "15 EB 1924"-----	554.544
Reference mark, 17 ft. N. and 5 ft. E. from tablet, in root on E. side of 12-in. elm tree; copper nail and washer-----	554.93
Greenfield, 1.6 mi. W. and 1.8 mi. S. from, near SE. cor. sec. 7, T. 10 N., R. 10 W., in NW. angle of crossroads, 6 ft. S. and 25 ft. W. from fence corner, in center of top of N. concrete head wall of culvert; chiseled square-----	552.70
Greenfield, 1.6 mi. W. and 0.8 mi. S. from, near NW cor. sec. 8, T. 10 N., R. 10 W., in SE. angle of turn in rd., at fence corner, in root on SW. side of 12-in. Osage-orange tree; copper nail and washer-----	582.33
Greenfield, 1.0 mi. W. thence 0.3 mi. S. from, 0.2 mi. N. of center of sec. 5, T. 10 N., R. 10 W., NW. of junction of T-rd. E., 50 ft. W. of fence corner, in fence line W., in root on SE. side of 24-in. elm tree; copper nail and washer-----	590.36
Greenfield, 0.9 mi. W. of, in NW. angle of junction of T-rd. N., 15 ft. N. and 1 ft. E. from corner fence post, in concrete post; standard tablet stamped "16 EB 1924" (recovered in 1928)-----	568.309
Reference mark, 35 ft. S. and 35 ft. W. from tablet, 1 ft. N. of NE. corner of steel bridge over small creek, in center of top of concrete wing wall; chiseled square (recovered in 1928)-----	570.03
Greenfield, 0.9 mi. W. thence 1.0 mi. N. from, on E. side of rd., 5 ft. S. and 1 ft. W. from corner of hedge and wire fence; top of $\frac{3}{4}$ -in. pipe (recovered in 1928)-----	606.01
Greenfield, 0.9 mi. W. thence 1.5 mi. N. from, 0.25 mi. E. of center of sec. 29, T. 11 N., R. 10 W., on E. side of rd., at T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 57 1911 17 EB 1924"-----	614.088
Reference mark, 30 ft. S. and 40 ft. W. from iron post, in root on E. side of 24-in. hard-maple tree; copper nail and washer-----	613.70
T. 11 N., R. 10 W., near center of SE $\frac{1}{4}$ sec. 20, in SE. angle of junction of T-rd. S., 6 in. N. and 5 ft. E. from fence corner; top of $\frac{3}{4}$ -in. pipe-----	614.29
T. 11 N., R. 10 W., 0.25 mi. N. of SW. cor. sec. 20, in NE angle of right-angle turn in rd., on NW. corner of concrete base of corner fence post; chiseled square-----	600.98
T. 11 N., R. 10 W., near NW. cor. sec. 20, 3 ft. N. and 1 ft. E. from NE. corner of steel bridge over Bear Creek, in center of top of concrete wing wall; chiseled square-----	525.96

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T. 11 N., R. 10 W., near SW. cor. sec. 5, in NE. angle of crossroads, 5 ft. N. of gate to barnyard, in concrete post; standard tablet stamped "18 EB 1924"-----	Feet 583.900
Reference mark, 105 ft. S. and 6 ft. W. from tablet, in root on N. side of 12-in. wild-cherry tree; copper nail and washer-----	584.15
T. 11 N., R. 10 W., near SW. cor. sec. 5, in NE. angle of crossroads, 20 ft. N. and 1 ft. W. from fence corner, 1 ft. W. of gate to yard of house, on S. edge of concrete walk; chiseled square-----	558.90
T. 12 N., R. 10 W., near S. cor. secs. 31 and 32, in NW. angle of crossroads, in SE. corner of yard of farmhouse, in root on E. side of 36-in. cottonwood tree; copper nail and washer-----	546.95
T. 12 N., R. 10 W., near NW. cor. sec. 32, in SE. angle of junction of T-rd. S., on E. end of concrete culvert; chiseled square-----	490.25
[Jogs into Roodhouse quadrangle, line 5]	
T. 12 N., R. 10 W., near E $\frac{1}{4}$ cor. sec. 18, in NW. angle of crossroads, on SW. corner of concrete base of corner fence post; chiseled square-----	561.52
6. From point 1.3 miles south and 2.2 miles west from Rockbridge along roads alternately north and west about 1 mile (by E. O. Brooks in 1924)	
[Continued from Brighton quadrangle, line 2]	
Rockbridge, 1.0 mi. S. and 2.2 mi. W. from, 0.25 mi. E. of center of sec. 6, T. 9 N., R. 10 W., in SW. angle of T-junction of E.-W. rd., in root on NE. side of 12-in. Osage-orange tree used as corner fence post; copper nail and washer-----	517.62
Rockbridge, 1.0 mi. S. and 2.2 mi. W. from, 40 ft. N. and 60 ft. W. from above Osage-orange tree, in root on SW. side of 12-in. wild-cherry tree; copper nail and washer-----	518.08
[Connects with line 4 in Roodhouse quadrangle]	
7. From point 1 mile south and 2.2 miles west from Rockbridge along roads east and north to Rockbridge, thence east to point 3.5 miles east of Chesterfield (by E. O. Brooks in 1924)	
Rockbridge, 0.8 mi. S. and 1.5 mi. W. from, 0.25 mi. N. of center of sec. 5, T. 9 N., R. 10 W., 40 ft. E. of right-angle turn in rd., in center of top of N. concrete head wall of culvert; chiseled square-----	524.00
Rockbridge, 0.8 mi. S. and 0.5 mi. W. from, 0.25 mi. N. of center of sec. 4, T. 9 N., R. 10 W., in SW. angle of junction of T-rd. S., 8 ft. N. and 35 ft. W. from fence corner, in root on NW. side of 24-in. wild-cherry tree; copper nail and washer-----	524.79
Rockbridge, in S. part of, in SW. angle of crossroads, on E. edge of N.-S. concrete sidewalk, 2 ft. N. of walk E.; chiseled square ⁶⁴ -----	541.95
Rockbridge, in S. part of, at crossing of Chicago, Burlington & Quincy R. R.; top of W. rail-----	542.6
Rockbridge, 0.7 mi. E. of, 0.25 mi. E. of center of sec. 34, T. 10 N., R. 10 W., in NE. angle of junction of T-rd. N., 2 ft. S. and 10 ft. E. from fence corner, in concrete post; standard tablet stamped "30 EB 1924"-----	525.715
Reference mark, 35 ft. S. and 85 ft. E. from tablet, at NE. corner of steel bridge over large drain, on concrete wing wall; chiseled square-----	516.64

⁶⁴ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Z 102 1935," elevation 544.326 ft.

	Feet
Rockbridge, 1.5 mi. E. of, near center of sec. 35, T. 10 N., R. 10 W., in NW. angle of junction of T-rd. N., in center of top of W. concrete head wall of culvert under rd. N.; chiseled square-----	531.20
Rockbridge, 2.5 mi. E. of, near center of sec. 36, T. 10 N., R. 10 W., in SW. angle of junction of T-rd. S., in center of top of S. concrete head wall of culvert; chiseled square-----	508.95
Rockbridge, 3.6 mi. E. thence 0.5 mi S from, 4.2 mi. W. of Chesterfield, about 0.4 mi. W. of S. cor. secs. 31 and 32, T. 10 N., R. 9 W., on S. side of E.-W. rd., opposite rd. N., 85 ft. W. of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 59 1911 31 EB 1924"-----	548.744
Référence mark, 17 ft. W. of iron post, 6 in. underground; top of $\frac{3}{4}$ -in pipe-----	547.55
Chesterfield, 3.4 mi. W. of, 0.4 mi. E. of SW. cor. sec. 32, T. 10 N., R. 9 W., 115 ft. W. of steel bridge over small creek, on N. side of rd., 5 ft. S. of fence, in root on SW. side of 48-in. elm tree; copper nail and washer-----	525.10
Chesterfield, 2.6 mi. W. of, 0.25 mi. E. of SW. cor. sec. 33, T. 10 N., R. 9 W., 15 ft. N. and 40 ft. E. from junction of T-rd. S., in center of top of N. concrete head wall of bridge over small drain; chiseled square-----	555.53
Chesterfield, 2.6 mi. W. of, in center of top of S. concrete head wall of bridge over small drain; chiseled square-----	555.96
Chesterfield, 1.8 mi. W. of, near SE. cor. sec. 33, T. 10 N., R. 9 W., in NW. angle of junction of T-rd. N., 1 ft. S. and 17 ft. W. from fence corner; top of $\frac{3}{4}$ -in. pipe-----	578.75
Chesterfield, 0.7 mi. NW. of, about 800 ft. E. of NW. cor. sec. 2, T. 9 N., R. 9 W., in SW. angle of junction of N.-S. rd., 200 ft. S. of center of rd. junction, 6 ft. W. of fence, on W. side of rd., in root on NW. side of 12-in. hickory tree; copper nail and washer-----	592.41
Chesterfield, near NW. corner of, in SE. angle of rd. fork, 40 ft. S. and 50 ft. E. from crossing of Chicago, Springfield & St. Louis Ry., 4 ft. N. and 6 ft. E. from corner of hedge fence, in concrete post; standard tablet stamped "32 EB 1924"-----	594.501
Chesterfield, 1.1 mi. E. of, near N $\frac{1}{4}$ cor. sec. 1, T. 9 N., R. 9 W., on S. side of rd., 35 ft. E. of junction of rd. N., in center of top of S. concrete head wall of culvert; chiseled square-----	600.18
Chesterfield, 2.1 mi. E. of, near N $\frac{1}{4}$ cor. sec. 6, T. 9 N., R. 8 W., in SW. angle of junction of T-rd. S., in NE. corner of yard of Union School, in root on N. side of 12-in. elm tree; copper nail and washer-----	606.27
Chesterfield, 3.1 mi. E. of, near S $\frac{1}{4}$ cor. sec. 32, T. 10 N., R. 8 W., in NW. angle of junction of T-rd. N., 3 ft. N. and 100 ft. W. from fence corner, in root on SE. side of 24-in. maple tree; copper nail and washer-----	616.37

[Connects with line 3 in Carlinville quadrangle]

8. From point 0.9 mile west of Greenfield along road east to road junction 0.5 mile south and 1 mile east from Hettick (by H. P. Jones in 1928)

Greenfield, 0.9 mi. W. of, near N. side NE $\frac{1}{4}$ sec. 5, T. 10 N., R. 10 W., 30 ft. S. of junction of T-rd. N., 80 ft. SW. of SW. corner of Rose Hill Cemetery, in concrete post; standard tablet stamped "T T Sta No 55 JLS 1927"-----

568.431

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	Feet
Greenfield, at NW. corner of small park, on square, on top of concrete curb; chiseled square ^{as}	590.03
Greenfield, near E. limits of, at W. end of bridge over Rubicon Creek, at sidewalk approach, on top of concrete step; chiseled square	549.39
Greenfield, 1.0 mi. E. of, about 500 ft. E. of N $\frac{1}{4}$ cor. sec. 3, T. 10 N., R. 10 W., 130 ft. W. of junction of rd. N., on S. head wall of concrete culvert; chiseled square	588.48
Greenfield, 2.0 mi. E. of, 0.3 mi. W. of NE. cor. sec. 2, T. 10 N., R. 10 W., 80 ft. NW. of NW. corner of Pleasant Hill School, 35 ft. S. of rd., in concrete post; standard tablet stamped "T T Sta No 54 JLS 1927"	596.048
Reference mark, about 900 ft. W. of schoolhouse, on NW. wing wall of concrete bridge over small creek; chiseled square	580.76
Greenfield, 2.5 mi. E. of, near N $\frac{1}{4}$ cor. sec. 1, T. 10 N., R. 10 W., on S. head wall of concrete culvert; chiseled square	560.27
Greenfield, 3.3 mi. E. of, near NE cor. sec. 1, T. 10 N., R. 10 W., at Greene-Macoupin county line, 75 ft. S. and 20 ft. E. from crossroads, in root on E. side of 20-in. wild-cherry tree; copper nail and washer	602.20
Greenfield, 4.2 mi. E. of, 0.25 mi. W. of NE. cor. sec. 6, T. 10 N., R. 9 W., on S. head wall of concrete culvert; chiseled square	588.07
Greenfield, 4.8 mi. E. of, 0.5 mi. S. thence 4.6 mi. W. from Hettick, near S $\frac{1}{4}$ cor. sec. 32, T. 11 N., R. 9 W., 25 ft. N. and 100 ft. W. from junction of T-rd. N., 60 ft. S. of and in front of farmhouse of Harry Converse, in concrete post; standard tablet stamped "T T Sta No 53 JLS 1927"	586.620
Reference mark, 75 ft. SW. of SW. corner of farmhouse, in root on W. side of 20-in. oak tree; copper nail and washer	587.15
Hettick, 0.5 mi. S. thence 4.0 mi. W. from, near SW. cor. sec. 33, T. 11 N., R. 9 W., on N. side of rd., 2 ft. inside fence line, in root on N. side of 15-in. elm tree; copper nail and washer	578.48
Hettick, 0.5 mi. S. thence 2.5 mi. W. from, near quarter corner between secs. 3 and 34, Tps. 10 and 11 N., R. 9 W., 30 ft. W. of T-rd. S., in root on W. side of 16-in. hedge tree; copper nail and washer	579.57
Hettick, 0.5 mi. S. thence 1.9 mi. W. from, near SW. cor. sec. 35, T. 11 N., R. 9 W., 22 ft. N. of rd., 140 ft. SE. of farmhouse of Arthur Shade, near barn lot fence, in concrete post; standard tablet stamped "T T Sta No 52 JLS 1927"	580.558
Reference mark, 60 ft. SE. of farmhouse, in root on W. side of 12-in. maple tree; copper nail and washer	580.58
9. From point 1 mile west of Modesto generally west along roads by way of Scottville to road junction near quarter corner between secs. 7 and 8, T. 12 N., R. 10 W. (by H. P. Jones in 1928)	
Modesto, 1.8 mi. W. of, 0.25 mi. E. of SW. cor. sec. 17, T. 12 N., R. 8 W., 20 ft. N. and 10 ft. E. from crossroads, on E. head wall of concrete culvert; chiseled square	689.86
Modesto, 2.5 mi. W. and 0.3 mi. N. from, 0.25 mi. S. of center of sec. 18, T. 12 N., R. 8 W., 50 ft. SW. of right-angle turn in rd., on W. side of forked hedge tree in E.-W. fence line, 18 in. above ground; copper nail and washer	692.12

^{as} In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "W 102 1935," elevation 590.701 ft.

	Feet
Modesto, 3.2 mi. W. and 0.5 mi. N. from, 0.3 mi. N. and 3.2 mi. E. from Scottville, 0.25 mi. E. of center of sec. 13, T. 12 N., R. 9 W., 10 ft. S. and 20 ft. W. from sharp angle to N. in rd., in front of farmhouse of Timothy Leahy, in concrete post; standard tablet stamped "T T Sta No 59 JLS 1927"-----	694. 298
Reference mark, 150 ft. E. of angle in rd., on N. head wall of concrete culvert; chiseled square-----	695. 99
Scottville, 0.3 mi. N. and 2.8 mi. E. from, in NW $\frac{1}{4}$ sec. 13, T. 12 N., R. 9 W., 50 ft. N. and 15 ft. W. from junction of T-rd. W., at stone bridge over Panther Creek, on outer end of SW. wing wall; chiseled square-----	667. 08
Scottville, 0.3 mi. N. and 2.1 mi. E. from, 175 ft. W. of center of sec. 14, T. 12 N., R. 9 W., on N. side of rd., 1 ft. inside fence line, in root on SE. side of 12-in. wild-cherry tree; copper nail and washer-----	676. 33
Scottville, 0.3 mi. N. and 1.3 mi. E. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 15, T. 12 N., R. 9 W., 30 ft. S. and 20 ft. E. from crossroads, on top of concrete foundation of corner fence post; chiseled square-----	662. 57
Scottville, in N. part of, on N. end of W. head wall of concrete culvert; chiseled square-----	642. 70
Scottville, 0.5 mi. W. of, near SE cor. sec. 17, T. 12 N., R. 9 W., 50 ft. SW of angle from E. to N. in rd., in fence corner, in concrete post; standard tablet stamped "T T Sta No 58 JLS 1927"-----	648. 284
Reference mark, about 250 ft. E. of right-angle turn in rd., on S. head wall of concrete culvert; chiseled square-----	645. 64
Scottville, 0.9 mi. NW. thence 0.7 mi. W. from, near E $\frac{1}{4}$ cor. sec. 18, T. 12 N., R. 9 W., near Sunny Point School, 150 ft. W. of T-rd. N., on NE. wing wall of concrete bridge; chiseled square-----	607. 06
Scottville, 0.9 mi. NW. thence 1.8 mi. W. from, 325 ft. E. of W $\frac{1}{4}$ cor. sec. 18, T. 12 N., R. 9 W., near Greene-Macoupin county line, on E. end of S. head wall of concrete culvert; chiseled square-----	579. 02
Scottville, about 2.6 mi. in air line W. of, 1.5 mi. N. and 2.0 mi. E. from Athensville, near cor. secs. 13, 18, 19, and 24, T. 12 N., R. 9 and 10 W., 10 ft. E. of sharp angle W. in rd., at Greene-Macoupin county line, in concrete post; standard tablet stamped "T T Sta No 57 JLS 1927"-----	613. 907
Athensville, 1.5 mi. N. and 0.8 mi. E. from, 0.25 mi. W. of E. cor. secs. 14 and 23, T. 12 N., R. 10 W., 20 ft. W. of center line of T-rd. E., 1 ft. W. of fence; top of 1-in. iron pipe-----	587. 81
Athensville, 1.5 mi. N. of, near S. cor. secs. 14 and 15, T. 12 N., R. 10 W., 60 ft. N. and 20 ft. W. from junction of T-rd. W., in root on W. side of forked wild-cherry tree; copper nail and washer-----	566. 94
Athensville, 1.5 mi. N. thence 0.9 mi. W. from, 150 ft. E. of W. cor. secs. 15 and 22, T. 12 N., R. 10 W., 10 ft. N. and 15 ft. W. from center of sharp angle N. in rd., in fence corner, in concrete post; standard tablet stamped "T T Sta No 56 JLS 1927"-----	537. 968
T. 12 N., R. 10 W., near E $\frac{1}{4}$ cor. sec. 16, 15 ft. S. and 15 ft. W. from center line of T-rd. W., on S. head wall of concrete culvert; chiseled square-----	534. 10
T. 12 N., R. 10 W., near quarter-corner between secs. 8 and 17, 0.5 mi. N. of Richwood School, at SE. corner of farmyard, in root on S. side of 48-in. maple tree; copper nail and washer-----	572. 38

GRIGGSVILLE QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

GREENE, PIKE, AND SCOTT COUNTIES

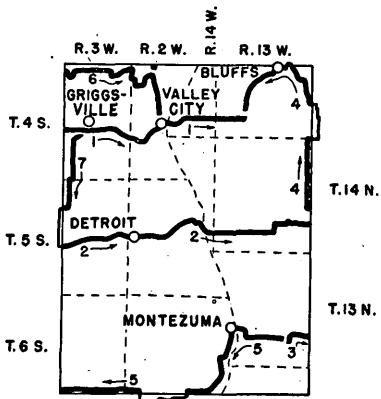


FIGURE 114.—Lines of leveling in Griggsville quadrangle.

1. From point 1 mile west of station at Griggsville east along Wabash Railway to point 1 mile northeast of Valley City, thence east along road to point 0.5 mile northwest of Oxville (by R. G. Clinite in 1914)

[Continued from Pittsfield quadrangle, line 1]

Griggsville, 1.6 mi. E. of, 3.4 mi. W. of Valley City, in SW. angle of crossing of N.-S. rd., 20 ft. S. and 1 ft. W. from corner of fences along right-of-way and rd., in NE. corner of pasture; standard iron post with bronze cap stamped "607" and "1 H 1924" (recovered by U. S. C. & G. S. in 1935)

Valley City, 0.5 mi. E. of sta., at R. R. bridge over Illinois River, at S. end of E. stone abutment, in top course; aluminum tablet stamped "441" and "6 H 1924" (recovered by U. S. C. & G. S. in 1935)

Valley City, 3.5 mi. E. of, 1.8 mi. NW. of Oxville, 0.1 mi. W. of N $\frac{1}{4}$ cor. sec. 31, T. 15 N., R. 13 W., on S. side of rd., in line with N.-S. fence, in root of 18-in. black-oak tree; copper nail and washer

Oxville, 0.5 mi. NW. of, 0.12 mi. E. of S $\frac{1}{4}$ cor. sec. 29, T. 15 N., R. 13 W., about 600 ft. E. of covered bridge over Mauvaise Terre Creek, near SW. corner of front yard of dwelling of Harvey Green, 14.8 ft. E. of fence corner, 2.2 ft. N. of fence; U. S. C. E. B. M. 19 (recovered in 1924)

cap on iron pipe-----
bolt in stone-----

Feet
606.488

440.501

452.13

449.750
445.800

2. From point 3 miles east of Pittsfield east along State Highway 36 and roads to point 2.3 miles west of Winchester (by W. A. Shumate in 1921)

[Continued from Pittsfield quadrangle, line 2]

Pittsfield, 4.2 mi. NE. of, 2.9 mi. W. of Detroit, in NE $\frac{1}{4}$ sec. 22, T. 5 S., R. 3 W., in SW. angle of junction of rd. S., 1 ft. from fence corner; standard iron post with bronze cap stamped "1921 691" (recovered in 1924) ⁶⁶	Feet 691. 146
Detroit, 2.0 mi. W. of, at Newburg School, near N $\frac{1}{4}$ cor. sec. 23, T. 5 S., R. 3 W., in SE. angle of crossroads, at NW. corner of schoolyard, in root of 30-in. maple tree; copper nail and washer	673. 93
Detroit, 0.7 mi. W. of, in SE $\frac{1}{4}$ sec. 13, T. 5 S., R. 3 W., on S. side of rd., in NE. angle of driveway to farmhouse, in root of 48-in. sycamore tree; copper nail and washer	568. 76
Detroit, in SE. angle of crossroads, 1 ft. S. and 1 ft. E. from fence corner; standard iron post with bronze cap stamped "1921 638" Reference mark, in NW. angle of crossroads, on sidewalk; chiseled square	638. 464
Detroit, 1.3 mi. E. of, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 20, T. 5 S., R. 2 W., in SE. angle of junction of second-class rd. S., on concrete culvert; chiseled square	639. 09
Detroit, 2.4 mi. NE. of, 1.9 mi. by rd. W. of Florence, at Tollgate School, near center of sec. 16, T. 5 S., R. 2 W., in NW. angle of six-way rd. forks, on rock near concrete fence post; highest point	622. 58
Florence, in N. part of, near E $\frac{1}{4}$ cor. sec. 15, T. 5 S., R. 3 W., 200 ft. W. of W. bank of Illinois River, 10 ft. N. and 100 ft. W. from NW. corner of old house, 2 ft. E. of fence, in concrete post; standard tablet stamped "1921 438"	638. 70
Reference mark, about 800 ft. W. of W. bank of Illinois River, on NE. corner of scales platform; chiseled square	437. 940
Florence, 1.5 mi. E. of, at Coon Island School, near NW. cor. sec. 32, T. 13 S., R. 14 W., 60 ft. E. of junction of rd. S., on W. end of lowest step; chiseled square	445. 22
Florence, 4.3 mi. E. of, 0.28 mi. E. of Brown School, in NE $\frac{1}{4}$ sec. 34, T. 14 N., R. 13 W., in front yard of dwelling of J. T. Wilson, 17.6 ft. S. of NW. corner post of yard fence, 2.2 ft. E. of front fence; U. S. C. E. B. M. 17 cap on iron pipe bolt in stone	426. 59
Florence, 3.7 mi. E. thence 0.5 mi. N. from, 0.15 mi. W. of center of sec. 27, T. 14 N., R. 13 W., at E. corner of wood lot, on N. side of highway, in W. angle of junction of rd. NW., in root of 36-in. black-oak tree; copper nail and washer	446. 515
Florence, 3.7 mi. E. thence 1.6 mi. NE. from, 3.3 mi. W. of Winchester, in NW $\frac{1}{4}$ sec. 26, T. 14 N., R. 13 W., 100 ft. E. of farm entrance, on N. side of highway, on NE. abutment of bridge; chiseled square	442. 584
	461. 44
	466. 86

⁶⁶ In 1923 this bench mark was moved about 5 ft. from this location and reset at an elevation 0.340 ft. lower than that originally determined. The figures given represent the new elevation.

[Continued in Winchester quadrangle, line 1]

3. From point 1 mile south and 3 miles east from Montezuma north and east along road to point 1.2 miles southwest of Glasgow (by S. R. Archer in 1924)

Montezuma, 1.0 mi. S. and 3.0 mi. E. from, 1.1 mi. N. of Greene-Scott county line, 1.0 mi. S. of Little Sandy Creek, in SW $\frac{1}{4}$ sec. 26, T. 13 N., R. 13 W., on E. side of highway, just S. of point where it passes well up on side of hills, in NW. corner of front yard of farmhouse of E. C. Adams, 119 ft. S. of 42-in. elm tree, in front yard of old house just NW. of farmhouse; U. S. C. E. B. M. 15

cap on iron pipe-----
bolt in stone-----

Feet
475. 527
471. 554

Reference mark, 10 ft. S. and 6.5 ft. E. from iron pipe, 10 ft. S. and 8.5 ft. E. from NW. corner of front yard of Adams farmhouse, inside yard fence, in root on W. side of 30-in. maple tree; copper nail and washer-----

476. 41

Montezuma, 0.5 mi. S. and 3.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 26, T. 13 N., R. 13 W., in NW. angle of junction of rd. W., on top of embankment, in root on NE. side of 24-in. locust tree; copper nail and washer-----

501. 70

Montezuma, 0.2 mi. S. and 3.2 mi. E. from, near center of NW $\frac{1}{4}$ sec. 26, T. 13 N., R. 13 W., 25 ft. S. and 40 ft. W. from junction of rd. N., in front of dwelling on S. side of rd., at foot of concrete steps leading to front yard, on NE. corner of concrete platform; chiseled square-----

455. 24

Montezuma, 0.3 mi. S. and 4.2 mi. E. from, 1.3 mi. SW. of Glasgow, near center of NW $\frac{1}{4}$ sec. 25, T. 13 N., R. 13 W., at foot of hill, in front of dwelling on N. side of rd., on top of E. end of S. headwall of concrete culvert; chiseled square-----

460. 14

[Continued in Winchester quadrangle, line 2]

4. From point 1 mile north and 2.3 miles west from Winchester along roads north and northwest to Bluffs, thence southwest to point 0.5 mile northwest of Oxbill (by S. R. Archer in 1924)

[Continued from Winchester quadrangle, line 2]

Exeter, 5.4 mi. S. of, 1.0 mi. N. and 2.5 mi. W. from Winchester, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 24, T. 14 N., R. 13 W., 65 ft. E. of junction of rd. E., on top of N. head wall of concrete culvert, at foot of W. end of guard wall; chiseled square-----

495. 74

Exeter, 4.8 mi. S. of, near NE. cor. sec. 23, T. 14 N., R. 13 W., in SW. angle of junction of T-rd. W., in root on NE. side of 30-in. boxelder tree; copper nail and washer-----

489. 43

Exeter, 3.8 mi. S. of, near SE. cor. sec. 11, T. 14 N., R. 13 W., 25 ft. N. and 40 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 82 W 1923 A 3"-----

552. 835

Exeter, 3.6 mi. S. of, 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 11, T. 14 N., R. 13 W., 100 ft. N. of junction of T-rd. E., 30 ft. N. of drain crossing, on W. side of rd., in root on W. side of 12-in. wild-cherry tree; copper nail and washer-----

539. 57

Exeter, 2.7 mi. S. of, 350 ft. N. of SE. cor. sec. 2, T. 14 N., R. 13 W., on W. side of rd., 10 ft. N. of SE. corner of front yard of dwelling of L. D. Little, in yard, 10 ft. S. of gate in yard fence, in root on E. side of 10-in. maple tree; copper nail and washer-----

548. 18

Exeter, 1.8 mi. S. of, 410 ft. S. of NE. cor. sec. 2, T. 14 N., R. 13 W., 410 ft. S. of crossroads, on W. side of rd., in SE. corner of yard of dwelling, in root on NE. side of 24-in. maple tree; copper nail and washer-----

Feet
555.25

[Jogs into Winchester quadrangle, line 3]

Exeter, 0.3 mi. W. of, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 25, T. 15 N., R. 13 W., 85 ft. E. of junction of rd. NE., at concrete bridge over Mauvaise Terre Creek, on top of parapet on S. side of W. abutment; chiseled square-----

489.63

Exeter, 1.1 mi. NW. of, 0.12 mi. W. of E $\frac{1}{4}$ cor. sec. 23, T. 15 N., R. 13 W., 50 ft. S. and 20 ft. E. from crossroads, in field, in root on W. side of two-forked wild-cherry tree; copper nail and washer-----

599.39

Exeter, 1.5 mi. NW. of, 2.0 mi. SE. of Bluffs, 0.25 mi. W. of SE. cor. sec. 14, T. 15 N., R. 13 W., 50 ft. N. and 25 ft. E. from junction of T-rd. S., at S. end of hedge fence N., in root on NE. side of two-forked hedge tree; copper nail and washer-----

595.57

[Jogs into Meredosia quadrangle, line 3]

Bluffs, 370 ft. E. of Wabash Ry. sta., 20 ft. S. and 30 ft. W. from R. R. crossing, in concrete post; standard tablet stamped "Prim Trav Sta No 79 W 1923 A 5"-----

473.696

Reference mark, in SE. corner of intersection of main streets, at corner entrance to Bank of Bluffs, on top of NE. end of stone doorsill; chiseled square-----

473.66

Bluffs, 0.7 mi. SW. of, 0.15 mi. S. and 0.1 mi. W. from E $\frac{1}{4}$ cor. sec. 16, T. 15 N., R. 13 W., 200 ft. SW. of farmhouse of C. E. Morris on E. side of rd., at SE. corner of concrete bridge, at foot of S. end of E. guard wall, on top of parapet; chiseled square-----

488.57

Bluffs, 1.5 mi. SW. of, 0.14 mi. E. of NW. cor. sec. 21, T. 15 N., R. 13 W., 100 ft. SW. of junction of rd. W., on NW. side of rd., in field, in root 6 in. underground on NE. side of 10-in. walnut tree; copper nail and washer-----

471.11

Bluffs, 2.2 mi. SW. of, 2.1 mi. N. of Oxbville, at Bluffdale School, 0.25 mi. E. of center of sec. 20, T. 15 N., R. 13 W., 275 ft. SW. of crossroads, on SE. side of rd., in NW. corner of schoolyard, on NW. corner of concrete curb around top of well; chiseled square-----

474.89

Oxbville, 1.5 mi. NW. of, near N $\frac{1}{4}$ cor. sec. 29, T. 15 N., R. 13 W., 140 ft. W. of junction of rd. W., 15 ft. S. and 45 ft. W. from fence corner, in field, in root on SE. side of 24-in. hackberry tree growing beside 30-in. walnut tree; copper nail and washer-----

461.11

5. From road junction 0.5 mile south and 3 miles east from Montezuma west and north to Montezuma, thence southwest along valley road 4 miles, thence generally west to point near quarter corner between secs. 28 and 33, T. 6 S., R. 3 W. (by S. R. Archer in 1924)

Montezuma, 0.5 mi. S. and 1.9 mi. E. from, near E $\frac{1}{4}$ cor. sec. 28, T. 13 N., R. 13 W., on S. side of rd., at NE. corner of concrete block foundation of farmhouse owned by John Leahman and occupied by J. Vespell, on N. face, at middle of concrete block of middle layer of three layers of blocks; chiseled square-----

428.22

Montezuma, 0.7 mi. E. thence 0.5 mi. S. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. fractional sec. 29, T. 13 N., R. 13 W., at jog in N.-S. rd., W. of junction of rd. E., 25 ft. E. of NE. corner of dwelling of H. E. Sipes, in front yard, in root on NW. side of 24-in. pecan tree; copper nail and washer	Feet 426. 07
Montezuma, 0.4 mi. E. of, near N $\frac{1}{4}$ cor. fractional sec. 29, T. 13 N., R. 13 W., on E. side of Illinois River, 500 ft. E. of mouth of Sandy Creek, on S. bank of creek, 110 ft. W. of S. end of highway bridge, in root on S. side of 30-in. elm tree; copper nail and washer	428. 49
Montezuma, 180 ft. S. of junction of rd. NW. to Milton, on E. side of Main Street, on S. side of street leading to boat landing, in NW. corner of front yard of dwelling of T. F. McEvers, in fence corner, in concrete post; standard tablet stamped "26 A 1924"	436. 162
Reference mark, directly W. across Main Street from tablet, at NE. corner of iron fence around yard of dwelling of N. D. McEvers, on concrete base; chiseled square	437. 62
Montezuma, 0.8 mi. SW. of, 0.6 mi. NE. of Bedford, in fractional sec. 13, T. 6 S., R. 2 W., on W. side of rd., in front of dwelling of T. A. Knox, 80 ft. S. of concrete bridge over drain, in root on E. side of 30-in. maple tree; copper nail and washer	438. 85
Bedford, in S. part of, at right-angle turn in rd. W., at ferry landing, on E. side of main rd., on N. side of rd. to ferry landing, in root on N. side of 24-in. poplar tree; copper nail and washer	427. 31
Bedford, 0.4 mi. W. of, near NE. cor. sec. 23, T. 6 S., R. 2 W., 160 ft. S. of junction of rd. S., on W. side of rd., 17 ft. S. and 8 ft. E. from SE. corner of schoolhouse, at NW. corner of concrete curb around top of well; chiseled square	455. 69
Bedford, 1.5 mi. SW. of, 0.12 mi. S. of NW. cor. fractional sec. 25, T. 6 S., R. 2 W., 0.1 mi. S. of ford, 375 ft. S. of lone chimney standing on E. side of rd., on W. side of rd., in root on NE. side of 14-in. sycamore tree; copper nail and washer	485. 60
Bedford, 2.6 mi. SW. of, 4.0 mi. NE. of Pearl, near S $\frac{1}{4}$ cor. sec. 26, T. 6 S., R. 2 W., 190 ft. N. of junction of rd. W., on W. side of rd., in front of dwelling of W. F. Joslin, 20 ft. S. of gate in yard fence, in concrete post; standard tablet stamped "Prim Trav Sta No 78 W 1923 A 27" (recovered in 1926)	448. 846
Reference mark, 17 ft. S. and 10 ft. W. from tablet, 4 ft. N. and 5 ft. W. from SE. corner of yard, in root on SE. side of 30-in. maple tree; copper nail and washer (recovered in 1926)	449. 26
Bedford, 2.6 mi. SW. thence 1.0 mi. W. from, 1.3 mi. NE. of Greenpond Church, 0.1 mi. W. of quarter corner between secs. 27 and 34, T. 6 S., R. 2 W., in NE. angle of junction of second-class rd. N., on W. side of forked wild-cherry tree; copper nail and washer	482. 36
[Jogs into Pearl quadrangle, line 4]	
Greenpond Church, 2.4 mi. NW. of, 3.8 mi. E. of Clover School, near NE. cor. sec. 31, T. 6 S., R. 2 W., 30 ft. SW. of junction of T-rd. W., at fence corner, in root on N. side of 12-in. Osage-orange tree; copper nail and washer	694. 30
Clover School, 1.9 mi. E. of, 0.2 mi. NW. of SE. cor. sec. 25, T. 6 S., R. 3 W., 120 ft. N. of rd., 80 ft. N. of creek, 40 ft. W. of farmhouse of Harold Warmon, in root on S. side of 24-in. walnut tree; copper nail and washer	553. 52

	Feet
Clover School, 1.3 mi. E. of, 0.25 mi. E. of NW. cor. sec. 36, T. 6 S., R. 3 W., 20 ft. S. of junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 76 W 1923 H '14"-----	575. 104
Reference mark, 22 ft. S. of tablet, 1 ft. above ground, in trunk on N. side of 12-in. elm tree; rail spike-----	572. 65
Clover School, 1.0 mi. E. of, at cor. secs. 25, 26, 35, and 36, T. 6 S., R 3 W., at junction of T-rd. S., in center of rd., on top of stone marking section corner; chiseled square-----	611. 63
Clover School, 4.0 mi. S. of Time, in NW. cor. sec. 35, T. 6 S., R. 3 W., 90 ft. S. and 45 ft. E. from crossroads, directly W. and in line with N. side of schoolhouse, in root on SW. side of 12-in. maple tree; copper nail and washer-----	731. 62
Clover School, 0.9 mi. W. of, 0.9 mi. S. and 5.4 mi. E. from Martinsburg, 0.11 mi. E. of SW. cor. sec. 27, T. 6 S., R. 3 W., 65 ft. N. of rd., in SW. corner of yard of dwelling, in root on S. side of 30-in. catalpa tree; copper nail and washer-----	706. 61

[Continued in Pittsfield quadrangle, line 4]

6. From point 2.6 miles north and 1.8 miles west from Griggsville generally east along roads to sec. 5, T. 4 S., R. 2 W., thence southeast along valley road to Wabash Railway bridge over Illinois River near Valley City (by I. F. Hazelwood in 1924)

[Continued from Pittsfield quadrangle, line 7]

Griggsville, 2.2 mi. N. and 0.9 mi. W. from, 2.9 mi. S. of Perry, 0.2 mi. N. of S. cor. secs. 3 and 4, T. 4 S., R. 3 W., in yard of farmhouse, in root on N. side of 36-in. soft-maple tree; copper nail and washer-----	592. 62
Griggsville, 2.7 mi. NW. of, near W $\frac{1}{4}$ cor. sec. 3, T. 4 S., R. 3 W., 25 ft. N. of creek, in root on E. side of 24-in. sycamore tree; copper nail and washer-----	498. 72
Griggsville, 2.5 mi. in air line N. of, 0.25 mi. E. of center of sec. 3, T. 4 S., R. 3 W., on N. side of rd., in front of farmhouse, in root of S. side of 36-in. oak tree; copper nail and washer-----	606. 12
Griggsville, 2.5 mi. along improved rd. N. of, near E $\frac{1}{4}$ cor. sec. 3, T. 4 S., R. 3 W., 18 ft. N. and 12 ft. W. from crossroads, on concrete culvert; chiseled square-----	604. 02
Griggsville, 2.5 mi. N. thence 0.5 mi. E. from, at Shelly School, near center of sec. 2, T. 4 S., R. 3 W., 30 ft. N. and 130 ft. W. from junction of T-rd. S., on SW. corner of concrete curb around top of well; chiseled square-----	601. 86
Shelly School, 0.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 1, T. 4 S., R. 3 W., 25 ft. N. and 25 ft. E. from right-angle turn in rd., in root on SW. side of 36-in. maple tree; copper nail and washer-----	596. 21
Shelly School, 0.5 mi. E. thence 0.3 mi. S. from, 0.2 mi. N. of SE. cor. sec. 2, T. 4 S., R. 3 W., 30 ft. W. of junction of rd. NE., in concrete post; standard tablet stamped "Prim Trav Sta No 56 W 1923 H '4"-----	594. 516
Reference mark, 580 ft. E. of tablet, on top of head wall of concrete culvert; chiseled square-----	576. 30
Shelly School, 1.7 mi. by rd. E. of, near center of NE $\frac{1}{4}$ sec. 1, T. 4 S., R. 3 W., on N. side of rd., 25 ft. W. of creek, in S. side of trunk of 36-in. elm tree; rail spike-----	470. 43

	Feet
Shelly School, 2.1 mi. NE. of, 1.0 mi. N. of North Flint School, near center of NW $\frac{1}{4}$ sec. 6, T. 4 S., R. 2 W., 60 ft. N. and 20 ft. E. from rd. junction, in root on SW. side of 24-in. maple tree; copper nail and washer-----	588. 96
North Flint School, 0.12 mi. N. of center of NW $\frac{1}{4}$ sec. 7, T. 4 S., R. 2 W., on E. side of rd., in schoolyard, on concrete curb around top of well; chiseled square-----	604. 41
North Flint School, 0.2 mi. S. of, near center of NW $\frac{1}{4}$ sec. 7, T. 4 S., R. 2 W., 65 ft. NE. of junction of rd. N., in corner of yard, in root on W. side of 36-in. maple tree; copper nail and washer-----	630. 81
North Flint School, 1.6 mi. NE. of, 2.5 mi. NW. of Valley City, 0.15 mi. S. and 0.25 mi. W. from center of sec. 5, T. 4 S., R. 2 W., 10 ft. N. and 25 ft. W. from junction of rd. N., near fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 57 W 1923 H 5" (recovered in 1927)-----	457. 814
Reference mark, 580 ft. SE. of tablet, on SW. abutment of bridge; chiseled square-----	451. 66
Valley City, 1.4 mi. NW. of, 0.2 mi. S. of center of sec. 8, T. 4 S., R. 2 W., in SW. angle of junction of rd. W., in root on W. side of 26-in. elm tree; copper nail and washer-----	444. 64
Valley City, 0.3 mi. NW. of, in SE $\frac{1}{4}$ sec. 17, T. 4 S., R. 2 W., on E. side of rd., in root on N. side of 36-in. pecan tree; copper nail and washer-----	456. 38
Valley City, at McCase Spring, on top of S. wall; chiseled square-----	434. 62
Valley City, 0.2 mi. E. of Wabash Ry. sta., on W. end of concrete abutment of R. R. bridge; chiseled square-----	443. 33
7. From point 1 mile west of Wabash Railway station at Griggsville east along railroad 1 mile, thence south along roads to point 2.9 miles west of Detroit (by I. F. Hazelwood in 1924) [Connects with line 1 in Pittsfield quadrangle]	
Griggsville, 240 ft. W. thence 95 ft. S. from Wabash Ry. sta., on W. side of rd., on concrete culvert, near center of top of W. head wall; chiseled square-----	684. 22
Griggsville, 0.8 mi. SW. of sta., 0.05 mi. S. of N. cor. secs. 27 and 28, T. 4 S., R. 3 W., 60 ft. NE. of junction of rd. S., on S. end of stone culvert; chiseled square-----	690. 99
Griggsville, 0.8 mi. SW. thence 0.7 mi. S. from, 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 28, T. 4 S., R. 3 W., on W. side of rd., in front of farmhouse, in root on E. side of 38-in. elm tree; copper nail and washer-----	681. 38
Griggsville, 0.8 mi. SW. thence 1.5 mi. S. from, 0.05 mi. S. of W $\frac{1}{4}$ cor. sec. 34, T. 4 S., R. 3 W., 15 ft. E. of rd., in root on SW. side of 23-in. maple tree; copper nail and washer-----	657. 14
Griggsville, 0.8 mi. SW. thence 2.0 mi. S. from, 1.0 mi. N. and 0.2 mi. E. from Greenfield School, near SW. cor. sec. 34, T. 4 S., R. 3 W., on E. side of rd., at right-angle turn W. in rd., in root on S. side of 12-in. white-oak tree; copper nail and washer-----	642. 06
Greenfield School, 0.5 mi. N. of, 0.25 mi. E. of center of sec. 4, T. 5 S., R. 3 W., on E. side of rd., in SW. corner of yard, in root on W. side of 36-in. maple tree; copper nail and washer-----	654. 56
Greenfield School, on E. side of rd. opposite, 0.25 mi. W. of NE. cor. sec. 9, T. 5 S., R. 3 W., 35 ft. S. and 18 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 60 W 1923 H 7"-----	651. 400

	<i>Feet</i>
Reference mark, 15 ft. S. and 10 ft. W. from crossroads, on top of W. end of concrete and iron culvert; chiseled square-----	650.45
Greenfield School, 0.5 mi. S. of, 0.25 mi. E. of center of sec. 9, T. 5 S., R. 3 W., on W. side of rd., at right-angle turn W. in rd., in root on S. side of 24-in. shellbark hickory tree; copper nail and washer-----	633.35
[Jogs into Pittsfield quadrangle, line 5]	
Detroit, 3.6 mi. SW. of, 2.5 mi. S. and 0.2 mi. E. from Greenfield School, 0.1 mi. N. of W $\frac{1}{4}$ cor. sec. 22, T. 5 S., R. 3 W., on SW. wing wall of concrete culvert; chiseled square-----	614.76

HANNIBAL QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $91^{\circ}15'$ – $91^{\circ}30'$]

PIKE COUNTY

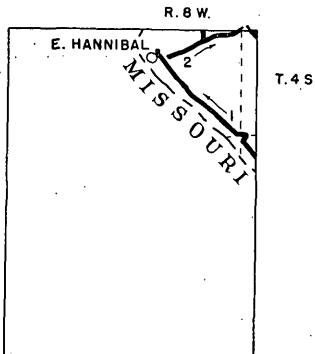


FIGURE 115.—Lines of leveling in Hannibal quadrangle.

1. From point 0.4 mile east of foot of Saverton Island northwest along Sny Levee road and U. S. Highway 36 to Hannibal Bridge over Mississippi River (by S. R. Archer in 1926)

[Continued from Barry quadrangle, line 9]

East Hannibal, 7.5 mi. SE. of, 6.2 mi. NW. of Cincinnati Landing, 20 ft. N. and 40 ft. W. from NW. corner of Old Smith School, 40 ft. back from NE. bank of slough, 25 ft. S. of N. side of schoolyard, in root on W. side of 36-in. elm tree; copper nail and washer

Feet
458.19

East Hannibal, 6.8 mi. SE. of, 0.25 mi. W. of center of sec. 6, T. 5 S., R. 7 W., 0.25 mi. NW. of levee milepost 13-14, 80 ft. NE. of levee rd., at fence corner at intersection of E.-W. quarter-section line and right-of-way line of levee, in root on W. side of 12-in. oak tree; copper nail and washer

459.72

East Hannibal, 6.0 mi. SE. thence 0.5 mi. E. from, 0.31 mi. E. of SW. cor. sec. 31, T. 4 S., R. 7 W., 100 ft. SW. of McClellan dwelling, on N side of rd., 25 ft. N. and 20 ft. W. from junction of private rd. SW., on W. side of driveway, 6 ft. W. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 154 F 1925"

458.238

East Hannibal, 6.0 mi. SE. of, 0.3 mi. W. of SE. cor. sec. 36, T. 4 S., R. 8 W., on property of McTucker estate, 540 ft. E. of river bank, 328 ft. NW. of levee milepost 12-13, which is nearly opposite end of E.-W. rd., 140 ft. NE. of levee, 98 ft. SE. of house, in S. corner of yard fence; Mississippi River Comm. B. M. 92/2

460.210
456.200

cap on iron pipe
bolt in tile

461.00

East Hannibal, 5.1 mi. SE. of, in NW $\frac{1}{4}$ sec. 36, T. 4 S., R. 8 W., 0.12 mi. SE. of levee milepost 11-12, 65 ft. NE. of levee rd., on W. side of rd. N., in yard of farmhouse, in root on S. side of 48-in. oak tree, southwesternmost of two oak trees 20 ft. apart; copper nail and washer

	Feet
East Hannibal, 4.5 mi. SE. of, 0.1 mi. E. of S $\frac{1}{4}$ cor. sec. 26, T. 4 S., R. 8 W., 0.45 mi. SE. of levee milepost 10-11, 100 ft. NW. of junction of rd. E., on NE. side of levee rd., 15 ft. SW. of fence, in root on NW. side of 12-in. oak tree; copper nail and washer-----	461. 11
East Hannibal, 3.6 mi. SE. of, 0.12 mi. N. of E $\frac{1}{4}$ cor. sec. 27, T. 4 S., R. 8 W., 0.4 mi. NW. of levee milepost 10-11, 35 ft. NE. of levee, 20 ft. NW. of junction of rd. N., 4 ft. E. of two mail boxes, in concrete post; standard tablet stamped "Prim Trav Sta No 153 F 1925"-----	464. 487
Reference mark, 430 ft. SE. of tablet, 60 ft. NE. of levee rd., 60 ft. S. of S. corner of farmhouse, in root on SW. side of 48-in. oak tree; copper nail and washer-----	463. 36
East Hannibal, 2.9 mi. SE. of, 0.2 mi. W. of quarter corner between secs. 22 and 27, T. 4 S., R. 8 W., 0.23 mi. NW. of levee milepost 9-10, 361 ft. E. of river bank, 260 ft. SE. of dwelling on NE. side of levee rd., 80 ft. S. of S. corner of barn, 63 ft. NE. of levee, 33 ft. SE. of fence corner, 3 ft. NE. of fence, in field on property of Wm. Stickhorst; Mississippi River Comm. B. M. 93/2	
cap on iron pipe-----	461. 820
bolt in tile-----	457. 790
East Hannibal, 2.1 mi. SE. of, 0.22 mi. NW. of E $\frac{1}{4}$ cor. sec. 21, T. 4 S., R. 8 W., 615 ft. NW. of intersection of E.-W. quarter-section line and levee rd., 400 ft. NW. of levee milepost 8-9, 160 ft. NW. of junction of private rd. E., on NE. side of levee rd., in field, in root on W. side of 10-in. pecan tree; copper nail and washer-----	464. 74
East Hannibal, 1.6 mi. SE. of, near N $\frac{1}{4}$ cor. sec. 21, T. 4 S., R. 8 W., 0.45 mi. SE. of levee milepost 7-8, 75 ft. SE. of junction of rd. E., on NE. side of levee rd., in root on N. side of small three-forked elm tree; copper nail and washer-----	463. 80
East Hannibal, 0.7 mi. SE. of, near center of NE $\frac{1}{4}$ sec. 17, T. 4 S., R. 8 W., 50 ft. SE. and 20 ft. NE. from crossroads, 20 ft. SE. of fence corner, in concrete post; standard tablet stamped "6 A 1926"-----	460. 191
Reference mark, 160 ft. NW. and 75 ft. NE. from crossroads, in field, in root on S. side of 24-in. pecan tree; copper nail and washer-----	461. 30
East Hannibal, 0.4 mi. NE. of, 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 8, T. 4 S., R. 8 W., 410 ft. N. of crossing of Chicago, Burlington & Quincy R. R., on W. side of N.-S. rd., on property of R. H. Stilwell, in cultivated field; Mississippi River Comm. B. M. 94/1	
cap on iron pipe-----	464. 540
bolt in tile-----	460. 540
East Hannibal, at E. end of bridge over Mississippi River, on top of E. end of N. wing wall; chiseled square and letters "B M"-----	484. 89
East Hannibal, at E. end of bridge over Mississippi River, on top of E. end of S. wing wall; bottom of chiseled circle (U. S. C. E. B. M. 54)-----	484. 82
[Continued in Missouri]	
2. From crossroads 0.7 mile southeast of East Hannibal northeast along road to point 0.5 mile southwest of Seehorn (by S. R. Archer in 1926)	
East Hannibal, 1.5 mi. E. of, at Bird Slough School, near S $\frac{1}{4}$ cor. sec. 9, T. 4 S., R. 8 W., 280 ft. E. of junction of rd. N., on N. side of rd., at entrance steps to schoolhouse, on top of E. end of second step from bottom; chiseled square-----	466. 18

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	Feet
East Hannibal, 2.3 mi. NE. of, 3.4 mi. SW. of Seehorn, near center of SW $\frac{1}{4}$ sec. 10, T. 4 S., R. 8 W., 150 ft. SW. of SW. end of bridge over The Sny, on SE. side of rd., 75 ft. SW. of junction of rd. SE., in yard of farmhouse, in root on N. side of 24-in. walnut tree; copper nail and washer	463.90
Seehorn, 2.6 mi. SW. of, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 10, T. 4 S., R. 8 W., 20 ft. S. and 30 ft. W. from junction of rd. N., 30 ft. W. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 151 F 1925"	460.515
Reference mark, 160 ft. NE. of tablet, on NW. side of rd., in root on S. side of 48-in. elm tree; copper nail and washer	461.68
Seehorn, 1.9 mi. SW. of, at Eagle Slough School, 0.13 mi. N. of S $\frac{1}{4}$ cor. sec. 2, T. 4 S., R. 8 W., on SE. side of rd., on W. side of entrance to schoolhouse, on N. edge of concrete porch floor, at foot of E. side of porch post; chiseled square	464.31
Seehorn, 1.4 mi. SW. of, 0.15 mi. N. of SW. cor. sec. 1, T. 4 S., R. 8 W., 20 ft. S. and 40 ft. E. from junction of rd. S., in root on NW. side of 15-in. poplar tree; copper nail and washer	458.74
Seehorn, 0.7 mi. SW. of, near center of SE $\frac{1}{4}$ sec. 1, T. 4 S., R. 8 W., at angle in rd., 25 ft. SW. and 30 ft. SE. from junction of private rd. E. to farmhouse, in root on W. side of 24-in. locust tree; copper nail and washer	462.34

[Connects with line 2 in Quincy quadrangle]

HAVANA QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $90^{\circ}00'$ – $90^{\circ}15'$]

FULTON AND MASON COUNTIES

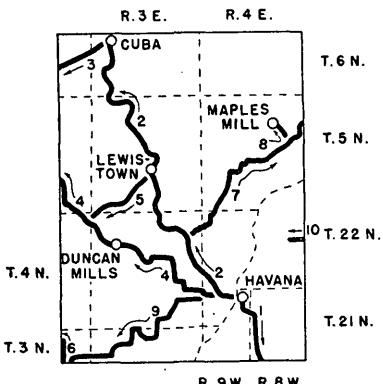


FIGURE 116.—Lines of leveling in Havana quadrangle.

1. From Havana south along Chicago, Peoria & St. Louis Railroad or to point 2.4 miles north of Long Branch (by R. C. Howard in 1905; double-rodded line)

Havana, at iron highway bridge over Illinois River, in top of S. end of E. pier, 3 ft. from W. side; copper bolt (U. S. C. E. P. B. M. 37; recovered by U. S. C. & G. S. in 1935) -----

Feet
450.872

[Continued in Chandlerville quadrangle, line 1]

2. From Havana northwest along Chicago, Burlington & Quincy Railroad to point just north of Cuba (by E. M. Bandli in 1909)

Havana, 3.0 mi. NW. of, about 2 mi. SE. of Sepo, 100 ft. N. of track, 12 ft. N. of rd., in front of house, 3 ft. from gatepost; standard iron post with bronze cap stamped "442" (recovered in 1923) -----

441.130

Sepo, about 0.5 mi. NW. of, about 4.5 mi. SE. of Lewistown, 130 ft. NW. of rd. crossing, on N. side of track, 3 ft. from signpost; standard iron post with bronze cap stamped "464" (recovered in 1923) -----

462.996

Lewistown, at Fulton County court house, on S. side of main entrance, in step between pillars; aluminum tablet stamped "596" (recovered by U. S. C. & G. S. in 1935) -----

595.465

Lewistown, 4.0 mi. NW. of, 5.0 mi. SE. of Cuba, in sec. 4, T. 5 N., R. 3 E., 10 ft. E. of track, 6 ft. S. of signpost; standard iron post with bronze cap stamped "515" (recovered by U. S. C. & G. S. in 1935) -----

514.533

^{o7} Now the Chicago & Illinois Midland Ry.

^{o8} In 1923 it was reported that the iron post was leaning, and that the house had burned.

^{o9} In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Y 34 1935," elevation 587.643 ft.

644 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Cuba, at first rd. S. of sta., 36 ft. SW. of rd. crossing, 24 ft. W. of SW. fence corner, 3 ft. SW. of telephone pole, 0.5 ft. N. of fence; standard iron post with bronze cap stamped "686" (recovered by U. S. C. & G. S. in 1935) _____ Feet
685. 750

[Continued in Canton quadrangle, line 1]

3. From Cuba southwest along Toledo, Peoria & Western Railroad to point 2.2 miles east of Smithfield (by E. M. Bandli in 1909; relevelled by S. R. Archer in 1910) _____

Cuba, 2.2 mi. SW. of, 3.2 mi. E. of Smithfield, near SE. cor. sec. 23, T. 6 N., R. 2 E., 600 ft. N. of track, 36 ft. NW. of crossroads, 6 ft. W. of NW. fence corner, 2 ft. from fence; standard iron post with bronze cap stamped "674.4" (recovered by U. S. C. & G. S. in 1935) " _____ 673. 463

[Continued in Vermont quadrangle, line 1]

4. From Havana generally northwest along roads to point 5.4 miles northwest of Duncan Mills (by S. R. Archer in 1910) _____

Havana, 2.9 mi. W. of, near $N\frac{1}{4}$ cor. sec. 25, T. 4 N., R. 3 E., at SE. corner of small steel bridge over ditch; top of steel foundation _____ 442. 50

Havana, 3.4 mi. W. of, near SW. cor. sec. 24, T. 4 N., R. 3 E., 30 ft. NE. of crossroads, 1 ft. from fence; standard iron post with bronze cap stamped "445" _____ 444. 451

Havana, 4.4 mi. NW. of, near center of sec. 23, T. 4 N., R. 3 E., 50 ft. NW. of junction of T-rd. N., in root of locust tree; steel staple _____ 448. 50

Havana, 5.7 mi. NW. of, 3.8 mi. SE. of Duncan Mills, about 0.12 mi. E. of center of $NW\frac{1}{4}$ sec. 14, T. 4 N., R. 3 E., about 0.25 mi. NW. of Woods Lake, in SW. corner of junction of E.-W. rd., at fence line; standard iron post with bronze cap stamped "446" _____ 445. 680

Duncan Mills, 2.1 mi. SE. of, near $W\frac{1}{4}$ cor. sec. 15, T. 4 N., R. 3 E., at foot of bluff, in SE. corner of rd. junction, at S. end of drain under rd. E.; top of stone _____ 489. 40

Duncan Mills, 1.7 mi. SE. of, in $NE\frac{1}{4}$ sec. 16, T. 4 N., R. 3 E., on W. side of rd., in SE. corner of front yard of house, in root on E. side of large elm tree; spike (U. S. C. E. B. M.) _____ 482. 16

Duncan Mills, 0.9. mi. E. of, in $SW\frac{1}{4}$ sec. 9, T. 4 N., R. 3 E., on S. side of rd., just W. of house, in W. side of elm tree; spike (U. S. C. E. B. M.) _____ 473. 88

Duncan Mills, at center of, in SE. corner of rd. intersection, on N. side, near W. end of pool room; standard iron post with bronze cap stamped "Prim Trav Sta No 14 1910 481" _____ 480. 491

Duncan Mills, 0.7 mi. W. of, about 0.2 mi. E. of center of sec. 7, T. 4 N., R. 3 E., in NE. corner of junction of rd. NW., in root on S. side of oak tree; nail _____ 568. 02

Duncan Mills, 2.2 mi. NW. of, 4.7 mi. SW. of Fulton County courthouse at Lewistown, near $E\frac{1}{4}$ cor. sec. 1, T. 4 N., R. 2 E., at "Steam Shovel Cut," 25 ft. SE. of S. end of wooden highway bridge over Chicago, Burlington & Quincy R. R., on E. side of rd., at E. fence line; standard iron post with bronze cap stamped "553" _____ 552. 490

¹⁰This bench mark had been disturbed before its recovery by the U. S. C. & G. S. In 1941 it was reported destroyed.

Lewistown, 4.2 mi. SW. of, 2.2 mi. NW. thence 0.5 mi. NE. from Duncan Mills, about 0.3 mi. E. of NW. cor. sec. 6, T. 4 N., R. 3 E., at R. R. bridge over Spoon River, at SW. corner of trestle, in W. end of S. guard rail; bolt head ⁷¹-----
 Duncan Mills, 4.4 mi. NW. of, near N $\frac{1}{4}$ cor. sec. 35, T. 5 N., R. 2 E., on E. side of rd., opposite rd. W., in yard of P. Clanin, in root of maple tree; nail-----

Feet
486.26
564.60

[Continued in Vermont quadrangle, line 2]

5. From Lewistown southwest 4.2 miles along Chicago, Burlington & Quincy Railroad (by C. C. Gardner in 1910)

Lewistown, 2.8 mi. SW. of, in SE $\frac{1}{4}$ sec. 32, T. 5 N., R. 3 E., 1,500 ft. N. of Lewistown pumping sta., 500 ft. E. of track, on SE. corner of county bridge; chiseled square-----

466.46

6. From point about 0.15 mile south of center of sec. 11, T. 3 N., R. 2 E., along roads north and west about 1.3 miles to point near center of sec. 2, T. 3 N., R. 2 E. (by S. L. Parker in 1919)

[Continued from Chandlerville quadrangle, line 3]

T. 3 N., R. 2 E., 500 ft. S. of center of sec. 2, at junction of E.-W. rd., in top of E. end of substantial box culvert under rd.; copper nail and washer-----

633.28

[Continued in Vermont quadrangle, line 4]

7. From point 3 miles northwest of Havana northwest along Chicago, Burlington & Quincy Railroad to Sepo, thence generally northeast along roads to point near Hall School in sec. 12, T. 5 N., R. 4 E. (by W. A. Shumate in 1923)

Sepo, near W. edge of, 100 feet, E. of rd. intersection, on S. side of rd., in base of 15-in. willow tree, 1 ft. above ground; 20-penny nail-----

456.87

Sepo, 0.6 mi. NE. of, near N $\frac{1}{4}$ cor. sec. 12, T. 4 N., R. 3 E., in SE. angle of junction of T-rd. E., in root of 20-in. elm tree; 20-penny spike-----

510.11

Sepo, 1.6 mi. NE. of, in SW $\frac{1}{4}$ sec. 6, T. 4 N., R. 4 E., in SE. angle of junction of T-rd. E., in root of 24-in. walnut tree; 20-penny nail-----

486.01

Sepo, 2.4 mi. NE. of, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 6, T. 4 N., R. 4 E., 100 ft. E. of rd. junction, 3 ft. S. of fence, in concrete post; standard tablet stamped "1 S 1923"-----

467.595

Reference mark, 100 ft. E. of rd. junction, on N. side of rd., in root of 36-in. silver-poplar tree; 20-penny nail-----

471.24

Sepo, 3.4 mi. NE. of, near W $\frac{1}{4}$ cor. sec. 32, T. 5 N., R. 4 E., 160 ft. N. of NW. corner of house of C. E. White, on E. side of rd., 170 ft. N. of drain, in root of 18-in. walnut tree; 20-penny nail-----

485.41

Sepo, 4.5 mi. NE. of, near center of sec. 29, T. 5 N., R. 4 E., 830 ft. S. of junction of T-rd. W., on E. side of rd., 120 ft. NW. of house, on concrete culvert; chiseled square-----

489.55

Sepo, 6.0 mi. NE. of, about 5 mi. E. of Lewistown, 1.3 mi. SE. thence 3.2 mi. SW. from Maples Mill, in SW $\frac{1}{4}$ sec. 21, T. 5 N., R. 4 E., 60 ft. N. of junction of T-rd. E., 30 ft. S. of T-rd. W., on W. side of rd., 2 ft. from fence, in concrete post; standard tablet stamped "2 S 1923"-----

455.590

Reference mark, 100 ft. E. of junction of T-rd. W., on NE. corner of bridge, on concrete abutment; chiseled square-----

452.12

⁷¹ On spur line northeast 0.5 mile along Chicago, Burlington & Quincy R. R. from previous mark.

Maples Mill, 1.3 mi. SE. thence 2.4 mi. SW. from, near E $\frac{1}{4}$ cor. sec. 21, T. 5 N., R. 4 E., on S. side of rd., in line with rd. N., on rock; chiseled square	Feet 462.65
Maples Mill, 1.3 mi. SE. thence 1.0 mi. SW. from, about 0.25 mi. E. of SW. cor. sec. 14, T. 6 N., R. 4 E., on S. side of rd., in line with rd. NW., 3 ft. N. of fence, in concrete post; standard tablet stamped "3 S 1923"	499.030
Reference mark, 260 ft. W. of rd. junction, in notch 6 in. above ground in 12-in. walnut tree; nail	498.63
Maples Mill, 1.3 mi. SE. of, 1.3 mi. SW. of Hall School, about 0.2 mi. N. of E $\frac{1}{4}$ cor. sec. 14, T. 5 N., R. 4 E., 150 ft. W. of rd. junction, in ditch line, on rock; chiseled square	501.34
Hall School, 0.6 mi. S. of, near N $\frac{1}{4}$ cor. sec. 13, T. 5 N., R. 4 E., in NE. angle of junction of rd. E., in root of 8-in. oak tree; 20-penny nail	498.29
Hall School, near center of sec. 12, T. 5 N., R. 4 E., 100 ft. W. of rd., in NW. corner of well platform; standard tablet stamped "5 S 1923"	572.080
Reference mark, 100 ft. W. of rd., 30 ft. S. of schoolhouse, on concrete platform of pump; chiseled square	572.05
[Continued in Manito quadrangle, line 1]	
8. From point 1.3 miles southeast of Maples Mill northwest along road to Maples Mill (by W. A. Shumate in 1928; leveled twice)	
Maples Mill, at store owned by John Raker, in concrete porch; standard tablet stamped "4 S 1923"	576.100
Reference mark, on W. side of rd., 60 ft. E. of house, in root of 18-in. maple tree; 20-penny nail	575.06
9. From Havana generally southwest along roads to point in southeast quarter sec. 11, T. 3 N., R. 2 E. (by W. A. Shumate in 1928)	
Havana, at Mason County office building, on public square, facing Main Street, at main S. entrance, on W. side of doorway, in top of stone doorstep; copper bolt leaded vertically (U. S. C. E. P. B. M. 39)	473.888
Havana, 1.6 mi. W. of, in NE $\frac{1}{4}$ sec. 30, T. 4 N., R. 4 E., 300 ft. N. of junction of rd. N., at S. end of bridge over Spoon River, on W. side of rd., on concrete abutment; chiseled square	448.04
Havana, 2.5 mi. W. of, about 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 30, T. 4 N., R. 4 E., 100 ft. S. of junction of N-S. rd., on E. side of rd., at S. end of bridge, in abutment; copper nail and washer	445.32
Havana, 3.5 mi. W. of, about 0.25 mi. W. of center of sec. 25, T. 4 N., R. 3 E., 90 ft. N. of rd., on W. side of private rd., in 6-in. elm tree; 20-penny spike	436.82
Havana, 4.2 mi. W. of, near center of sec. 26, T. 4 N., R. 3 E., on E. side of rd., at bend from W. to S., on concrete base of signpost; chiseled square	447.91
Havana, 4.2 mi. W. thence 1.1 mi. S. from, about 0.3 mi. W. of center of sec. 35, T. 4 N., R. 3 E., 35 ft. S. and 110 ft. W. from junction of rd. W., in root of 48-in. maple tree; copper nail and washer	442.67
Havana, 6.0 mi. SW. of, near center of sec. 34, T. 4 N., R. 3 E., 40 ft. W. of T-rd. S., on S. side of rd., on concrete sidewalk to house; chiseled square	473.84

Havana, 6.8 mi. SW. of, 1.6 mi. SE. thence 0.3 mi. N. from Enion, 0.25 mi. N. of center of sec. 3, T. 3 N., R. 3 E., 1,310 ft. S. of line between Tps. 3 and 4 N., in SE. angle of junction of T-rd. E., 2 ft. from fence, in concrete post; standard tablet stamped "9 S 1923"-----	Feet 442.088
Reference mark, 1,410 ft. S. of township line, about 80 ft. S. of rd. junction, in root of 12-in. walnut tree; copper nail and washer-----	442.05
Enion, 1.1 mi. SE of, near quarter corner between secs. 3 and 4, T. 3 N., R. 3 E., on N. side of rd., in line with T-rd. S., on concrete sidewalk; chiseled square-----	447.78
Enion, 0.2 mi. E. of SW. cor. sec. 33, T. 4 N., R. 3 E., on N. side of rd., in line with T-rd. S., 2 ft. from fence, in concrete post; standard tablet stamped "10 S 1923"-----	460.843
Reference mark, 340 ft. E. of rd. junction, on N. side of rd., in root of 48-in. elm tree; copper nail and washer-----	457.03
Enion, 0.9 mi. S. of, in SW $\frac{1}{4}$ sec. 4, T. 3 N., R. 3 E., 150 ft. W. of junction of rd. W., on S. side of rd., in root of 12-in. cedar tree; copper nail and washer-----	465.18
T. 3 N., R. 3 E., 0.25 mi. E. of SW. cor. sec. 5, on E. side of rd., 150 ft. N. of house, on rock; chiseled square-----	581.53
T. 3 N., R. 3 E., near E $\frac{1}{4}$ cor. sec. 7, at Hickory School, in concrete porch; standard tablet stamped "10 S 1923"-----	601.592
T. 3 N., R. 3 E., 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 7, in SE. angle of cross-roads, in root of 15-in hickory tree; copper nail and washer-----	600.66
T. 3 N., Rs. 2 and 3 E., near E $\frac{1}{4}$ cor. sec. 12, in SW. angle of cross-roads, in root of 12-in. wild-cherry tree; copper nail and washer-----	617.48
[Continued in Chandlerville quadrangle, line 4]	
10. West along road 0.9 mile to west quarter corner sec. 21, T. 22 N., R. 8 W. (by G. W. Moore in 1929)	
[Connects with lines 2 and 4 in Manitowoc quadrangle]	
T. 22 N., R. 8 W., near W $\frac{1}{4}$ cor. sec. 21, about 4.5 mi. NE. of Havana, in SW. corner of farm of A. H. Jones, 2.1 ft. N. of rd.; U. S. C. E. P. B. M. 41	
cap on iron pipe-----	470.599
bolt in limestone block-----	466.636

JACKSONVILLE QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $90^{\circ}00'$ – $90^{\circ}15'$]

GREENE, MACOUPIN, AND MORGAN COUNTIES

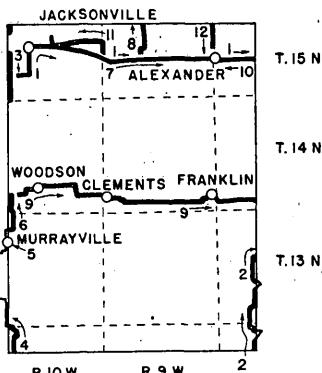


FIGURE 117.—Lines of leveling in Jacksonville quadrangle.

1. From point on south side of Diamond Grove Cemetery in Jacksonville along streets alternately east and north to Wabash Railway, thence generally east to point 2 miles east of Alexander (by W. A. Shumate in 1921)

[Continued from Winchester quadrangle, line 1]

Jacksonville, in NW. angle of T-junction of N.-S. rd., in SE. corner of Diamond Grove Cemetery, 1 ft. from fence corner; standard iron post with bronze cap stamped "1921 689" (recovered in 1924) -----

Reference mark, on E. side of rd., in line with rd. W., in root of 60-in. elm tree; copper nail and washer -----

Jacksonville, at NE. corner of intersection of Diamond and Michigan Streets, on concrete sidewalk; chiseled square -----

Jacksonville, in SE. corner of intersection of College and Diamond Streets, in root of maple tree; copper nail and washer -----

Jacksonville, at E. entrance to Morgan County courthouse, in S. side of stone support of steps, 1 ft. above ground; aluminum tablet stamped "1921 612" (recovered by U. S. C. & G. S. in 1933) -----

Jacksonville, on N. side of College Street East, 500 ft. E. of Chesapeake & Ohio Ry. track, in root of 60-in. maple tree; copper nail and washer -----

Jacksonville, on N. side of College Street East, 35 ft. N. and 130 ft. E. from C. & O. Ry. overpass, at NE. abutment, in end of concrete retaining wall; standard tablet stamped "1921 592" (recovered by U. S. C. & G. S. in 1933) -----

Arnold, 5 ft. N. and 100 ft. E. from SE. corner of Wabash Ry. sta., 20 ft. N. of track; standard iron post with bronze cap stamped "1921 643" (recovered by U. S. C. & G. S. in 1933) -----

Feet
688. 817
688. 78
615. 06
613. 38
612. 791
588. 80
592. 420
643. 411

Alexander, 10 ft. N. and 30 ft. W. from SE. corner of city square, 100 ft. N. and 10 ft. W. from NW. corner of lunch room, in concrete post; standard tablet stamped "1921 660" (recovered by U. S. C. & G. S. in 1933)

Feet
660. 107

[Continued in Waverly quadrangle, line 1]

2. From point 1 mile west and 1.5 miles north from Modesto generally north along roads to point 1.3 miles south and 2.5 miles west from Waverly (by E. O. Brooks in 1923; leveled twice)

[Continued from Greenfield quadrangle, line 3]

No bench-marks were set in that portion of the line in the southeast corner of the quadrangle.

[Jogs into Waverly quadrangle, line 5]

Modesto, 1.0 mi. W. thence 3.5 mi. by rd. N. from, 0.25 mi. W. of SE. cor. sec. 32, T. 13 N., R. 8 W., at Macoupin-Morgan county line, on W. side of rd., in front of farmhouse, 3 ft. E. of yard fence, in concrete post; standard tablet stamped "Prim Trav Sta No 10 W 1923 33 EB". Reference mark, 75 ft. S. and 20 ft. W. from tablet, in NE. corner of barnyard, in root on NE. side of 36-in. maple tree; copper nail and washer

659. 611

Modesto, 1.0 mi. W. thence 4.8 mi. N. from, near SW. cor. sec. 28, T. 13 N., R. 8 W., at West Union School, in SW. corner of schoolyard, 35 ft. N. and 15 ft. E. from fence corner, in root on NW. side of 24-in. black-oak tree; copper nail and washer

660. 17

Modesto, 1.0 mi. W. thence 5.9 mi. N. from, near NW. cor. sec. 28, T. 13 N., R. 8 W., 6 ft. SW. of SW. corner of steel bridge over Apple Creek, in center of top of S. end of concrete retaining wall; chiseled square

636. 93

Modesto, 1.0 mi. W. thence 6.6 mi. N. from, 0.25 mi. S. of NW. cor. sec. 21, T. 13 N., R. 8 W., 175 ft. N. of junction of T-rd. E., on E. side of rd., in fence line, in root on W. side of 24-in. elm tree; copper nail and washer

574. 43

Modesto, 1.0 mi. W. thence 7.1 mi. N. from, 1.6 mi. S. and 2.6 mi. W. from Waverly, 0.25 mi. N. of SW. cor. sec. 16, T. 13 N., R. 8 W., 25 ft. N. and 20 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 11 W 1923 34 EB"

627. 20

[Continued in Waverly quadrangle, line 6]

3. From point in western part of Jacksonville east 0.2 mile, south 2.5 miles, and west 0.2 mile along streets and roads (by S. R. Archer in 1924)

651. 965

[A jog from Winchester quadrangle, line 4]

Jacksonville, at SE. corner of intersection of Mound and Lincoln Avenues, 18 ft. S. and 20 ft. E. from manhole opening, 5 ft. E. of curb line to S., on concrete curb; chiseled square

658. 16

Jacksonville, 1.2 mi. S. thence 1.0 mi. W. from courthouse, near E $\frac{1}{4}$ cor. sec. 30, T. 15 N., R. 10 W., 30 ft. N. and 30 ft. W. from junction of T-rd. E., near SE. corner of yard of residence, in root on E. side of 36-in. elm tree; copper nail and washer

631. 84

Jacksonville, 2.8 mi. S and 1.1 mi. W. from, about 800 ft. W. of NE. cor. sec. 6, T. 14 N., R. 10 W., 475 ft. W. of right-angle turn in rd., on S. side of rd., 85 ft. E. of house, 14 ft. E. of driveway, 10 ft. E. of fence corner, inside fence at NW. corner of orchard, in root on NW. side of 15-in. hackberry tree; copper nail and washer

631. 27

650 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

[Continued in Winchester quadrangle, line 4]

4. From point near quarter corner between secs. 7 and 8, T. 12 N., R. 10 W., along road north 1.6 miles, thence west 0.3 mile to point 2.8 miles east of corner of Greene, Morgan, and Scott Counties (by S. R. Archer in 1924)

[Continued from Greenfield quadrangle, line 4]

T. 12 N., R. 10 W., 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 5, in front of Spencer School, on E. side of rd., on top of SW. corner of concrete well curb; chiseled square-----

Feet
596.55

T. 13 N., R. 10 W., 400 ft. E. of SW. cor. sec. 32, 25 ft. N. and 50 ft. E. from junction of T-rd. S., on N. side of rd., in field, in root on S. side of 15-in. walnut tree; copper nail and washer-----

610.98

[Continued in Winchester quadrangle, line 7]

5. East along street in Murrayville (by S. R. Archer in 1924)

[A jog from Winchester quadrangle, line 7]

Murrayville, near E. end of Masters Street, on N. side of street, 40 ft. S. and 100 ft. W. from S. entrance to public school, 4 ft. N. of SW. corner of school yard, in concrete post; aluminum tablet stamped "24 A 1924"-----

687.140

Reference mark, 40 ft. N. and 100 ft. E. from tablet, at S. entrance to schoolhouse, on top of E. end of stone doorsill; chiseled square-----

690.25

[Continued in Winchester quadrangle, line 7]

6. From point about 0.6 mile north of Murrayville along roads east 0.2 mile, thence north 2 miles to crossroads 0.5 mile south and 1.5 miles west from Woodson, thence west 0.2 mile (by S. R. Archer in 1924)

[Continued from Winchester quadrangle, line 7]

Murrayville, 1.8 mile by rd. N. of, near NW. cor. sec. 5, T. 13 N., R. 10 W., 40 ft. E. of T-junction of E.-W. rd., on top of E. end of S. head wall of concrete culvert; chiseled square (recovered in 1930)-----

654.28

Murrayville, 2.8 mi. by rd. N. of, 0.5 mi. S. and 1.5 mi. W. from Woodson, near NW. cor. sec. 32, T. 14 N., R. 10 W., 20 ft. S. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 49 1911 25 A" (recovered in 1930)-----

676.345

Reference mark, 40 ft. S. and 120 ft. W. from crossroads, 20 ft. S. and 100 ft. W. from NW. corner of orchard, in root on E. side of 24-in. apple tree; copper nail and washer (recovered in 1930)-----

674.94

[Connects with line 4 in Winchester quadrangle]

7. From Arnold east along Wabash Railway to Orleans (by W. E. Baird in 1928; leveled twice)

Arnold, 1.5 mi. E. of, 2.0 mi. W. of Orleans, 30 ft. N. and 25 ft. E. from crossing of Wabash Ry., in concrete post; standard tablet stamped "T T Sta No 7 JLS 1927" (recovered by U. S. C. & G. S. in 1933)-----

640.278

Reference mark, 50 ft. W. of tablet, 30 ft. N. and 25 ft. W. from crossing, in crossing signboard; rail spike-----

639.81

Orleans, at rd. crossing; top of S. rail-----

657.6

Orleans, 70 ft. S. and 40 ft. E. of store and post office, 150 ft. E. of crossroads, in concrete post; standard tablet stamped "T T Sta No 8 JLS 1927" (recovered by U. S. C. & G. S. in 1933)-----

659.070

8. From road junction 1.5 miles east of Arnold along road generally north 2 miles (by W. E. Baird in 1928)

Arnold, 1.5 mi. E. thence 0.8 mi. N. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 21, T. 15 N., R. 9 W., 380 ft. N. of right-angle bend in rd., 45 ft. W. of rd., in root on E. side of 24-in. maple tree; copper nail and washer-----	Feet 637.42
Arnold, 1.5 mi. E. thence 1.8 mi. N. from, near center of NW $\frac{1}{4}$ sec. 16, T. 15 N., R. 9 W., 530 ft. S. from junction of T-rd. E., 30 ft. S. and 65 ft. W. from junction of T-rd. W., in root on N. side of 24-in. elm tree; copper nail and washer-----	634.96

[Continued in Virginia quadrangle, line 4]

9. From crossroads 0.5 mile south and 1.5 miles west from Woodson generally east along roads to point 2.6 miles east of Franklin (by G. W. Moore in 1930)

Woodson, 0.5 mi. S. and 0.8 mi. W. from, about 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 29, T. 14 N., R. 10 W., 45 ft. N. and 20 ft. W. from T-junction of N-S. rd., 30 ft. N. and 1 ft. W. from fence corner, in root on W. side of 10-in. walnut tree; copper nail and washer-----	684.00
Woodson, in S. part of, 15 ft. S. and 50 ft. W. from T-junction of U. S. Highway 67, 3 ft. N. and 6 ft. E. from intersection of sidewalks, opposite catch basin, on concrete curb; chiseled square-----	681.78
Woodson, at T-rd. E., 45 ft. E. of highway, 55 ft. W. of main track of Chicago & Alton R. R., on top of S. head wall of concrete culvert; chiseled square-----	676.85
Woodson, 1.0 mi. E. of, near center of sec. 27, T. 14 N., R. 10 W., 305 ft. S. and 14 ft. E. from junction of T-rd. S., in root on NW. side of 21-in. wild-cherry tree; copper nail and washer-----	688.15
Woodson, 2.0 mi. E. of, 1.7 mi. W. thence 0.5 mi. N. from Clements, near center of sec. 26, T. 14 N., R. 10 W., 20 ft. N. and 30 ft. W. from T-junction of N-S. rd., in concrete post; standard tablet stamped "T T Sta No 14 JLS 1927"-----	691.617
Reference mark, 35 ft. SE. of tablet, on top of concrete culvert under rd. W.; chiseled square-----	692.87
Clements, 1.7 mi. W. of, near N $\frac{1}{4}$ cor. sec. 35, T. 14 N., R. 10 W., 28 ft. S. and 33 ft. E. from junction of T-rd. E., at Central Point School, 3 ft. S. and 8 ft. E. from NW. corner of schoolyard, in root on NE. side of 18-in. maple tree; copper nail and washer-----	697.27
Clements, 0.7 mi. W. of, near N $\frac{1}{4}$ cor. sec. 36, T. 14 N., R. 10 W., 25 ft. S. and 460 ft. E. from junction of T-rd. S., in root on NE. side of 20-in. locust tree; copper nail and washer-----	700.29
Clements, in SE. part of, near center of NW $\frac{1}{4}$ sec. 31, T. 14 N., R. 9 W., 30 ft. S. and 3 ft. W. from turn from S. to E. in rd., 12 ft. S. and 11 ft. E. from fence corner, in root on N. side of 21-in. oak tree; copper nail and washer-----	687.21
Clements, 1.1 mi. by rd. SE. of, 5.0 mi. W. of Franklin, near E $\frac{1}{4}$ cor. sec. 31, T. 14 N., R. 9 W., near Durbin School, 12 ft. N. and 17 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 15 JLS 1927"-----	693.730
Reference mark, 83 ft. N. and 30 ft. W. from rd. junction, in schoolyard, in root on E. side of 18-in. poplar tree; copper nail and washer-----	693.09

	Feet
Franklin, 4.2 mi. W. of, 0.25 mi. E. of center of sec. 32, T. 14 N., R. 9 W., 70 ft. N. and 50 ft. E. from junction of T-rd. N., 50 ft. N. and 35 ft. E. from fence corner, in root on S. side of 22-in. oak tree; copper nail and washer-----	693. 33
Franklin, 3.5 mi. W. of, near center of sec. 33, T. 14 N., R. 9 W., at T-rd. N., on top of S. end of W. head wall of concrete culvert; chiseled square-----	691. 44
Franklin, 2.5 mi. W. of 1.4 mi. S. thence 0.3 mi. E. from Rees, near center of sec. 34, T. 14 N., R. 9 W., 135 ft. S. and 20 ft. E. from junction of T-rd. S., inside fence, in root on NE. side of 6-in. mulberry tree; copper nail and washer-----	687. 91
Franklin, 1.5 mi. W. of, near center of sec. 35, T. 14 N., R. 9 W., 20 ft. N. and 30 ft. E. from junction of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 16 JLS 1927"-----	677. 890
Franklin, about 0.7 mi. SW. of, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 36, T. 14 N., R. 9 W., 25 ft. N. and 45 ft. W. from angle to N. in rd., in center of top of head wall of concrete culvert; chiseled square-----	671. 64
Franklin, 205 ft. W. of W. corner of C. B. & Q. R. R. sta., 150 ft. SW. of tracks, on top at N. end near apex of large V-shaped concrete culvert under T-street S.; chiseled square-----	683. 48
Franklin, in SE. part of, at S. end of Market Street, 10 ft. S. and 25 ft. W. from bend from SE. to E. in rd., 25 ft. N. and 6 ft. W. from fence corner, on sidewalk; chiseled square-----	677. 60
Franklin, 1.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 32, T. 14 N., R 8 W., 40 ft. S. and 40 ft. E. from crossroads, in root on W. side of 16-in. oak tree; copper nail and washer-----	647. 63
Franklin, 2.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 33, T. 14 N., R. 8 W., 30 ft. NW. of NW. corner of house, near fence, in concrete post; standard tablet stamped "T T Sta No 17 JLS 1927"-----	675. 782
Reference mark, 105 ft. S. and 25 ft. W. from tablet, 25 ft. S. of rd. at jog around house, in root on N. side of 15-in. locust tree; copper nail and washer-----	672. 76
[Connects with line 7 in Waverly quadrangle]	
10. From point 2 miles east of Alexander west along U. S. Highway 36 to Alexander (by G. W. Moore in 1930)	
[Continued from Waverly quadrangle, line 9]	
Alexander, 1.9 mi. E. of, near SW. cor. sec. 21, T. 19 N., R. 8 W., 30 ft. N. of School No. 10, 1 ft. E. of fence corner, on top of 3½-in. iron cross pipe in fence; chiseled square-----	662. 70
Alexander, 0.9 mi. E. of, near NW. cor. sec. 30, T. 19 N., R. 8 W., 25 ft. S. and 40 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "T T Sta No 9 JLS 1927"-----	665. 563
Reference mark, on top of N. end of E. head wall of concrete culvert under rd. S.; chiseled square-----	665. 96
11. From Arnold along roads alternately west and north to Jacksonville (by G. W. Moore in 1930; leveled twice)	
Arnold, 0.5 mi. W. of, near W. cor. secs. 19 and 30, T. 15 N., R. 9 W., 15 ft. N. and 185 ft. E. from crossing of U. S. Highway 36 and N-S. rd., on top of W. end of N. head wall of concrete culvert under highway; chiseled square-----	634. 37

	Feet
Arnold, 0.5 mi. W. thence 0.8 mi. N. from, 4.2 mi. E. of court-house at Jacksonville, in NE $\frac{1}{4}$ sec. 24, T. 15 N., R. 10 W., at jog in rd., 100 ft. NW. of house of J. S. McGinnis, in concrete post; standard tablet stamped "T T Sta No 6 JLS 1927"-----	630. 703
Reference mark, 33 ft. SE. of tablet, 15 ft. W. of turn in rd. from W. to N., in root on E. side of twin elder tree; copper nail and washer-----	631. 39
Jacksonville, 3.3 mi. E. of, 0.25 mi. E. of SW. cor. sec. 13, T. 15 N., R. 10 W., 48 ft. N. and 25 ft. E. from sighted intersection of rd. fork, 7.5 ft. N. and 11.5 ft. E. from fence corner, in root on S. side of 8-in. locust tree; copper nail and washer-----	614. 76
Jacksonville, 2.5 mi. E. of, about 500 ft. S. of N $\frac{1}{4}$ cor. sec. 23, T. 15 N., R. 10 W., 40 ft. N. and 75 ft. E. from crossroads, 75 ft. S. of residence of W. C. Thompson, near S. end of sidewalk; chiseled square-----	632. 39
Jacksonville, 1.6 mi. E. of, in NE $\frac{1}{4}$ sec. 22, T. 15 N., R. 10 W., near end of pavement, at summit of hill, in top at S. end of W. head wall of concrete culvert under T-rd. N.; chiseled square-----	605. 75
Jacksonville, 1.3 mi. E. of, near center of NW. cor. sec. 22, T. 15 N., R. 10 W., 40 ft. E. of T-rd. N., on curb; chiseled square-----	577. 42
Jacksonville, 1.3 mi. E. thence 0.5 mi. N. from, near center of SW $\frac{1}{4}$ sec. 15, T. 15 N., R. 10 W., 20 ft. S. and 50 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 5 JLS 1927"-----	605. 566
Reference mark, 95 ft. NE. of tablet, 45 ft. N. of E. end of Independence Street, 25 ft. E. of N.-S. rd., in root on S. side of 20-in. maple tree; copper nail and washer-----	604. 56
12. From point 1.8 miles north of Alexander south along State Highway 123 to Alexander (by S. R. Archer in 1932)	
[Continued from Virginia quadrangle, line 6]	
Alexander, 1.5 mi. N. of, near E $\frac{1}{4}$ cor. sec. 13, T. 15 N., R. 9 W., at T-rd. E., on W. side of rd., on top of S. head wall of concrete culvert under driveway to field; chiseled square-----	650. 18
Alexander, 0.7 mi. N. of, 0.4 mi. S. of NE. cor. sec. 24, T. 15 N., R. 9 W., at concrete bridge over Mauvaise Terre Creek, on top of S. end of W. head wall; chiseled square-----	641. 33
Alexander, at W. edge of, 140 ft. W. of junction of State Highway 123 and U. S. Highway 36, at concrete bridge over Mauvais Terre Creek, on top of N. wing wall of E. abutment; chiseled square-----	651. 94

KEITHSBURG QUADRANGLE
 [Latitude $41^{\circ}00'$ - $41^{\circ}15'$; longitude $90^{\circ}45'$ - $91^{\circ}00'$]
 HENDERSON, MERCER, AND WARREN COUNTIES

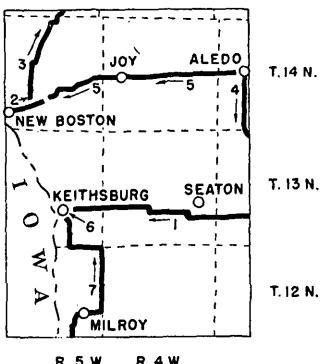


FIGURE 118.—Lines of leveling in Keithsburg quadrangle.

1. From point near east quarter corner sec. 29, T. 13 N., R. 3 W., 5.5 miles north and 0.3 mile west from Little York, generally west along roads to Keithsburg (by S. R. Archer in 1921; first 3 miles leveled by E. O. Brooks in same year)

[Continued from Alexis quadrangle, line 3]

Little York, 5.5 mi. N. thence 1.0 mi. W. from, 0.7 mi. S. thence 2.0 mi. E. from Seaton, at Scaly Point School, near W $\frac{1}{4}$ cor. sec. 29, T. 13 N., R. 3 W., 55 ft. N. and 160 ft. E. from crossroads, 35 ft. N. of SE. corner of schoolyard, in root 4 in. underground on SW. side of 14-in. boxelder tree; copper nail and washer-----
 Seaton, 0.7 mi. S. thence 1.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 25, T. 13 N., R. 4 W., in NW. angle of crossroads, on concrete head wall at W. end of drain under N.-S. rd., chiseled square-----
 Seaton, 0.7 mi. S. of, 0.18 mi. E. of W $\frac{1}{4}$ cor. sec. 25, T. 13 N., R. 4 W., 950 ft. E. of crossroads, on S. side of rd., 20 ft. E. of house on N side of rd., in root 4 in. underground on N. side of 12-in. walnut tree; copper nail and washer-----
 Seaton, 0.7 mi. S. of, near E $\frac{1}{4}$ cor. sec. 26, T. 13 N., R. 4 W., in SW. angle of crossroads, on S. side of E.-W. rd., standard iron post with bronze cap stamped "1921 660"-----
 Seaton, 0.7 mi. S. thence 0.5 mi. W. from, near center of sec. 26, T. 13 N., R. 4 W., 90 ft. E. of junction of T-rd. E., on S. side of rd., at fence line, in root on E. side of forked elm tree; copper nail and washer-----
 Seaton, 1.0 mi. W. thence 0.5 mi. S. from, 0.25 mi. S. of NW. cor. sec. 26, T. 13 N., R. 4 W., 25 ft. S. and 35 ft. E. from junction of T-rd. N., on S. side of rd., 3 ft. N. of fence line, in root 6 in. underground on NE. side of 10-in. walnut tree; copper nail and washer-----

Seaton, 0.5 mi. S. and 2.0 mi. W. from, 0.25 mi. S. of NW. cor. sec. 27, T. 13 N., R. 4 W., in SE. angle of crossroads, at top of bluff, at NE. corner of yard of dwelling, in corner of yard fence, in root on N. side of 8-in. pine tree; copper nail and washer-----

Feet
618. 94
616. 86
652. 18
659. 882
659. 39
637. 42
658. 61

	Feet
Seaton, 0.2 mi. S. and 2.5 mi. W. from, 4.7 mi. E. of Keithsburg, near N $\frac{1}{4}$ cor. sec. 28, T. 13 N., R. 4 W., 55 ft. S. and 25 ft. W. from right-angle turn in rd. from S. to W., 25 ft. S. of fence corner, in concrete post; standard tablet stamped "1921 576"-----	575.737
Keithsburg, 4.2 mi. E. of, near NW cor. sec. 28, T. 13 N., R. 4 W., in SE. angle of junction of T-rd. S., 5 ft. E. of fence corner, in field, in root 5 in. underground on NE. side of 8-in. walnut tree; copper nail and washer-----	573.05
Keithsburg, 3.1 mi. E. of, near NE. cor. sec. 30, T. 13 N., R. 4 W., 55 ft. S. and 25 ft. W. from crossroads, in fence line of yard, in root on NE. side of 36-in maple tree; copper nail and washer-----	577.80
Keithsburg, 2.2 mi. E. of, near SW. cor. sec. 19, T. 13 N., R. 4 W., in NE. angle of offset crossroads, 30 ft. N. and 45 ft. E. from junction of T-rd. E., 25. ft. E. of fence corner; standard iron post with bronze cap stamped "1921 564"-----	563.724
Reference mark, 205 ft. E. of iron post, on N. side of E.-W. rd., at fence line, in root on N. side of 24-in. elm tree; copper nail and washer-----	561.82
Keithsburg, 1.1 mi. E. of, 590 ft. W. of NE. cor. sec. 26, T. 13 N., R. 5 W., 320 ft. W. of SW. corner of cemetery, on S. side of rd., 60 ft. W. of small brick house, at fence line, in root on NE. side of 24-in. maple tree; copper nail and washer-----	567.05
Keithsburg, at NE. corner of intersection of Washington and Seventh Streets, on E. side of Seventh Street, at W. entrance to high school building, on top of N. end of top concrete step; chiseled square (recovered in 1931)-----	551.27
Keithsburg, at NW. corner of intersection of Main and Fifth Streets, on N. side of Main Street, at entrance to Commercial Hotel, on top of W. end of top concrete step; chiseled square (recovered in 1923)-----	548.67
Keithsburg, at SW. corner of intersection of Main and Fourth Streets, on S. side of Main Street, at E. side of entrance to Keithsburg Bank, 9 ft. W. of NE. corner of building, on top of W. end of limestone windowsill; chiseled square (recovered in 1931)-----	541.69
Keithsburg, at NW. corner of intersection of Main and Second Streets, on S. side of brick building, in stone step; copper bolt leaded vertically (U. S. C. E. B. M. 19; recovered by U. S. C. & G. S. in 1935)-----	539.431
2. From New Boston northeast along Chicago, Burlington & Quincy Railroad to point 0.8 mile southwest of Arpee station (by S. R. Archer in 1921)	
New Boston, at Union Hotel, 1.3 ft. from SW. corner of building, in W. wall, 3.6 ft. from ground; center of hole in copper bolt set horizontally (U. S. C. E. B. M. 23; recovered in 1931)-----	570.225
New Boston, on E. side of Broadway Street at intersection of Main Street, 225 ft. S. of C. B. & Q. R. R. crossing, in front of Robert's Machine Shop and Garage, 15 ft. S. of W. entrance, on S. side of concrete cross walk W., in root on SE. side of 30-in. elm tree; copper nail and washer-----	568.30
New Boston, 0.9 mi. NE. of, near S $\frac{1}{4}$ cor. sec. 29, T. 14 N., R. 5 W., 150 ft. E. of crossing of N.-S. rd., on S. side of S. right-of-way fence, in field, in root on S. side of 24-in. cherry tree; copper nail and washer-----	578.22

656 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
New Boston, 1.4 mi. NE. of, 0.22 mi. S. of E $\frac{1}{4}$ cor. sec. 29, T. 14 N., R. 5 W., 175 ft. N. of crossing of N.-S. rd., on W. side of rd., in root on N. side of 36-in. locust tree; copper nail and washer-----	578. 20
New Boston, 1.9 mi. NE. of, 0.8 mi. SW. of Arpee sta., at R. R. water tank, 492 ft. E. of covered R. R. bridge over Edwards River, on W. side of tank, 2 ft. below top of stone foundation, under strut, 10 in. N. of corner; center of hole in copper bolt set horizontally (U. S. C. E. B. M. 21; recovered in 1923)-----	554. 645
3. From road crossing on Chicago, Burlington & Quincy Railroad 1.4 miles northeast of New Boston northeast along roads to point 1.9 miles northeast of Mannon (by S. R. Archer in 1921)	
New Boston, 2.1 mi. NE. of, near SW. cor. sec. 21, T. 14 N., R. 5 W., 130 ft. N. and 25 ft. E. from crossroads, on E. side of rd., in root on W. side of 18-in. hackberry tree; copper nail and washer-----	561. 71
New Boston, 3.1 mi. NE. of, 2.3 mi. SW. of Mannon, near NE. cor. sec. 20, T. 14 N., R. 5 W., in SW. angle of junction of T-rd. W., 3 ft. S. of fence corner; standard iron post with bronze cap stamped "1921 565"-----	564. 299
Reference mark, 150 ft. W. of junction of T-rd. W., on N. side of rd., inside fence, in root on N. side of 24-in. elm tree; copper nail and washer-----	566. 63
Mannon, 1.3 mi. SW. of, in NW $\frac{1}{4}$ sec. 16, T. 14 N., R. 5 W., 0.25 mi. SW. of intersection of rd. and line between secs. 9 and 16, on E. side of rd., 10 ft. N. of E.-W. fence, in field, in root on SW. side of 48-in. maple tree; copper nail and washer-----	580. 69
Mannon, 0.4 mi. SW. of, 0.2 mi. NE. of center of sec. 9, T. 14 N., R. 5 W., 650 ft. N. of junction of T-rd. E., in center of rd., in root on NE. side of 36-in. elm tree; copper nail and washer-----	565. 34
Mannon, 0.2 mi. NE. of, 0.12 mi. NE. of SW. cor. sec. 3, T. 14 N., R. 5 W., 30 ft. N. and 35 ft. W. from junction of rd. E., 7 ft. E. of fence line along W. side of N.-S. rd., in line with fence along N. side of rd. E., 15 ft. S. of two hickory trees standing 4 ft. apart, in root 4 in. underground on E. side of 12-in. hickory tree; copper nail and washer-----	565. 16
Mannon, 0.6 mi. NE. of, 330 ft. SE. of W $\frac{1}{4}$ cor. sec. 3, T. 14 N., R. 5 W., 330 ft. SW. of junction of rd. S., on W. side of rd., at NE. corner of Mannon Cemetery, at N. end of hitching rack and iron fence in front of cemetery; standard iron post with bronze cap stamped "1921 586"-----	585. 188
Reference mark, about 20 ft. S. of iron post, on W. side of rd., 18 ft. SE. of NE. corner of cemetery, in root on N. side of small double elm tree; copper nail and washer-----	585. 26
Mannon, 1.4 mi. NE. of, 2.4 mi. S. of Petersville, in SE $\frac{1}{4}$ sec. 34, T. 15 N., R. 5 W., 165 ft. N. and 50 ft. W. from intersection of rd. and township line, 100 ft. S. and 20 ft. W. from gate in fence along W. side of rd., at foot of hill, in field, in root on NE. side of 24-in. elm tree; copper nail and washer-----	611. 08
[Continued in Edgington quadrangle, line 5]	
4. From Aledo south and southeast along State Highway 94 about 3 miles (by E. O. Brooks in 1921)	
[A jog from Alexis quadrangle, line 5]	
Aledo, 1.2 mi. S. of Mercer County courthouse, 100 ft. W. of white barn standing on E. side of highway, at fence corner, in root of 24-in. black-oak tree; copper nail and washer-----	703. 21

Aledo, 2.1 mi. S. of, at Kimmel School, near $S\frac{1}{4}$ cor. sec. 29, T. 14 N., R. 3 W., in NE. angle of crossroads, in SW. corner of schoolyard, on SW. corner of concrete platform of well; chiseled square-----
 Aledo, 3.1 mi. S. of, near $N\frac{1}{4}$ cor. sec. 5, T. 13 N., R. 3 W., 30 ft. S. and 55 ft. from junction of T-rd. N., at NW. corner of yard of dwelling, 5 ft. E. of fence corner; standard iron post with bronze cap stamped "40 EB 1921 692" and "Prim Trav Sta No 21 W 1923"-----
 Reference mark, 5 ft. S. and 5 ft. W. from iron post, in root of 12-in. pine tree; copper nail and washer-----

Feet
706.39

691.675
691.46

[Continued in Alexis quadrangle, line 5]

5. From Aledo southwest along Chicago, Burlington & Quincy Railroad to point 0.8 mile southwest of Arpee station (by W. A. Shumate in 1923)

[Connects with line 5 in Alexis quadrangle]

Aledo, 0.8 mi. W. of sta., in SW. angle of rd. crossing, 120 ft. S. of track, on W. side of rd., in line with T-rd. E., in root of 48-in. maple tree; rail spike-----
 Aledo, 1.8 mi. W. of, 300 ft. N. of track, 150 ft. W. of junction of T-rd. N., on S. side of rd., on concrete culvert; chiseled square-----
 Aledo, 3.8 mi. W. of, 3.0 mi. E. of Joy, 50 ft. NE. of crossing of N.-S. rd., 2.5 ft. SW. of corner of right-of-way fence, in concrete post; standard tablet stamped "29 S 1923"-----
 Joy, 2.0 mi. E. of, 190 ft. N. of crossing of N.-S. rd., on E. side of rd., in line with T-rd. W., on concrete culvert; chiseled square-----
 Joy, in NW. corner of schoolyard, in SE. angle of crossroads, in concrete post; standard tablet stamped "30 S 1923"-----
 Reference mark, NW. of tablet, in NW. angle of crossroads, on E. edge of concrete sidewalk running N.; chiseled square-----
 Joy, in front of sta.; top of N. rail-----
 Joy, 1.0 mi. W. of, 2.7 mi. NE. of Arpee sta., 90 ft. SW. of crossing of N.-S. rd., in root on S. side of 30-in. white-oak tree; rail spike-----
 Arpee sta., 0.25 mi. N. of, near $S\frac{1}{4}$ cor. sec. 22, T. 14 N., R. 5 W., 27 ft. N. and 25 ft. E. from junction of T-rd. S., 1.5 ft. S. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 30 W 1923"-----
 Reference mark, 25 ft. W. of tablet, on N. side of rd., in line with T-rd. S., in root of 60-in. maple tree; 20-penny nail-----

728.67
717.21
702.224
679.96
688.030
684.51
679.6
669.26
576.602
576.60

6. At Keithsburg (by W. A. Shumate in 1923)

Keithsburg, in NW. corner of park, 2.5 ft. E. of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 32 W 1923" (recovered in 1931)-----

549.374

7. From point near south quarter corner sec. 26, T. 12 N., R. 5 W., along roads alternately north and east by way of Milroy to corner of Tps. 12 and 13 N., Rs. 4 and 5 W., thence west and north to Keithsburg (by S. R. Archer in 1931)

[Connects with line 3 in Oquawka quadrangle]

Milroy, 0.3 mi. W. thence 1.3 mi. S. from, at Centerville School, 0.2 mi. N. of $S\frac{1}{4}$ cor. sec. 26, T. 12 N., R. 5 W., on W. side of rd., at NE. corner of schoolyard, in root on E. side of 18-in. locust tree; copper nail and washer-----

565.90

	Feet
Milroy, 0.3 mi. W. thence 0.8 mi. S. from, 0.25 mi. N. of center of sec. 26, T. 12 N., R. 5 W., 150 ft. N. of E. end of short jog in rd., on E. side of N.-S. rd., in root on SW. side of 18-in. elm tree; copper nail and washer-----	563. 06
Milroy, 0.3 mi. W. of, 0.2 mi. E. of center of sec. 23, T. 12 N., R. 5 W., at junction of T-rd. E., on W. side of rd., in root on E. side of 36-in. locust tree; copper nail and washer-----	563. 68
Milroy, 390 ft. N. of C. B. & Q. R. R. sta., near quarter corner between secs. 23 and 24, T. 12 N., R. 5 W., 25 ft. N. and 50 ft. W. from R. R. crossing, in concrete post; standard tablet stamped "Prim Trav Sta No 34 W 1923" (recovered by U. S. C. & G. S. in 1935)-----	565. 373
Milroy, 1.0 mi. E. of, near E $\frac{1}{4}$ cor. sec. 24, T. 12 N., R. 5 W., at offset crossroads, 120 ft. N. of junction of T-rd. E., on W. side of N.-S. rd., in field, 10 ft. W. of fence, in root on NW. side of 24-in. oak tree; copper nail and washer-----	568. 49
Milroy, 1.0 mi. E. thence 0.7 mi. N. from, 0.2 mi. N. of SW. cor. sec. 18, T. 12 N., R. 4 W., 150 ft. S. and 70 ft. E. from junction of T-rd. W., in drainage ditch, in root on W. side of double-trunked cottonwood tree; copper nail and washer-----	555. 39
Milroy, 1.0 mi. E. thence 1.8 mi. N. from, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 7, T. 12 N., R. 4 W., 990 ft. S. of junction of T-rd. E., 645 ft. S. of junction of T-rd. W., on E. side of N.-S. rd., in concrete post; U. S. C. & G. S. standard disk stamped "Bald Bluff Reference Mark 2 1931"-----	564. 414
Milroy, 1.0 mi. E. thence 3.0 mi. N. from, near E $\frac{1}{4}$ cor. sec. 1, T. 12 N., R. 5 W., 175 ft. N. of junction of T-rd. W., 140 ft. S. of junction of T-rd. E., on W. side of N.-S. rd., at fence line, in root on W. side of 24-in. locust tree; copper nail and washer-----	567. 10
Milroy, 1.0 mi. E. thence 3.5 mi. N. from, 2.0 mi. S. and 2.0 mi. E. from Keithsburg, near NE. cor. sec. 1, T. 12 N., R. 5 W., at Henderson-Mercer county line, 110 ft. W. of crossroads, on S. side of rd., in yard, in root on S. side of 10-in. maple tree; copper nail and washer-----	564. 00
Keithsburg, 2.0 mi. S. and 1.0 mi. E. from, near N. cor. secs. 1 and 2, T. 12 N., R. 5 W., 35 ft. S. and 50 ft. W. from crossing of C. B. & Q. R. R., at corner of fences along W. right-of-way of R. R. and S. line of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 33 W 1923"-----	578. 770
Keithsburg, 2.0 mi. S. of, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 35, T. 13 N., R. 5 W., 30 ft. N. and 50 ft. W. from junction of T-rd. E., in root on E. side of forked oak tree; copper nail and washer-----	556. 52
Keithsburg, 1.0 mi. S. of, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 35, T. 13 N., R. 5 W., 85 ft. S. of intersection of N.-S. rd. and E.-W. section line, on E. side of rd., opposite large red barn, in root on NW. side of 30-in. elm tree; copper nail and washer-----	569. 49
Keithsburg, in SW. part of, on E. side of Tenth Street, in line with front entrance of Catholic Church, on concrete curb; chiseled square -----	571. 52

KEOKUK QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $91^{\circ}15'$ – $91^{\circ}30'$]

HANCOCK COUNTY

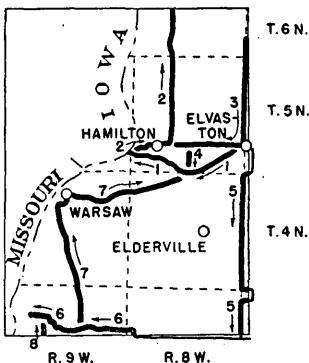


FIGURE 119.—Lines of leveling in Keokuk quadrangle.

1. From Elvaston southwest and northwest along Toledo, Peoria & Western R. R. to Keokuk and Hamilton bridge over Mississippi River (by E. M. Bandli in 1909; leveled by S. R. Archer in 1910)

[Continued from Carthage quadrangle, line 1]

Elvaston, 0.7 mi. SW. of sta., 0.2 mi. E. of center of sec. 25, T. 5 N., R. 8 W., 30 ft. S. of rd. intersection, 12 ft. S. of warning post, 4 ft. N. of fence; standard iron post with bronze cap stamped "670" (recovered in 1932)

Feet
668.204

Elvaston, 3.9 mi. SW. of, 2.7 mi. SE. of Hamilton, near SW. cor. sec. 34, T. 5 N., R. 8 W., 45 ft. N. of rd. crossing, 15 ft. NE. of NE. corner fence post, 2 ft. S. of fence; standard iron post with bronze cap stamped "638" (recovered in 1932)

636.945

[Continued in Iowa]

2. From Keokuk and Hamilton Bridge over Mississippi River northeast along State Highway 9 to crossroads 0.5 mile west of east limits of Hamilton, thence north along road to point near quarter corner between secs. 20 and 21, T. 6 N., R. 8 W. (by L. V. Johnson in 1928; leveled twice)⁷²

Keokuk and Hamilton bridge, 885 ft. E. of E. end of, 246 ft. E. of junction of R. R. tracks and highway at entrance to bridge, 148 ft. N. of tracks, 43 ft. SE. of rd., in woods; Mississippi River Comm. B. M. 111/2

490.990
487.030

cap on iron pipe-----
bolt in tile-----

Hamilton, in N. part of, 25 ft. N. and 20 ft. E. from junction of highway and river rd. to Nauvoo, 2 ft. W. of high-tension power-line pole, on sidewalk; chiseled square (recovered in 1931)

621.92

Hamilton, 0.5 mi. along highway W. of E. limits of, 30 ft. N. and 20 ft. E. from crossroads, 15 ft. SW. of grocery store of Tom Holtsclaw, on sidewalk; chiseled square (recovered in 1931)

668.20

⁷² An excessive error in this line has been disposed of by adjustment.

Hamilton, 0.5 mi. N. of N. limits of, near quarter corner between secs. 20 and 21, T. 5 N., R. 8 W., 50 ft. S. and 35 E. from junction of T-rd. E., in root on NW. side of 16-in. hickory tree; copper nail and washer-----	Feet 641.06
Hamilton, 1.5 mi. N. of N. limits of, near quarter corner between secs. 16 and 17, T. 5 N., R. 8 W., 40 ft. S. and 30 ft. E. from crossroads, 6 ft. S. of fence corner, in concrete post; standard tablet stamped "1 LJ 1928"-----	627.178
Reference mark, 6 ft. N. of tablet, 1 ft. NW. of corner fence post, on concrete base of fence post; chiseled square-----	626.44
Hamilton, 3.5 mi. N. of N. limits of, 200 ft. S. of quarter corner between secs. 4 and 5, T. 5 N., R. 8 W., 20 ft. E. of center line of rd., on N. end of concrete head wall of culvert; chiseled square-----	646.06
Hamilton, 4.0 mi. N. of N. limits of, near NW. cor. sec. 4, T. 5 N., R. 8 W., 30 ft. S. and 30 ft. E. from crossroads, on concrete walk leading to church steps; chiseled square-----	659.27
Hamilton, 5.0 mi. N. of N. limits of, 0.1 mi. W. of SE. cor. sec. 29, T. 6 N., R. 8 W., 50 ft. N. and 20 ft. E. from crossroads, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "2 LJ 1928"-----	653.127
Reference mark, 10 ft. N. and 25 ft. W. from crossroads, on N. side of concrete head wall of culvert; chiseled square-----	650.93

[Continued in Fort Madison quadrangle, line 1]

3. From point near southwest corner sec. 30, T. 6 N., R. 7 W., south along range-line road to Elvaston, thence west along State Highway 10 to Hamilton (by S. R. Archer in 1931)

[Continued from Carthage quadrangle, line 4]

Elvaston, 5.7 mi. N. of, near SE. cor. sec. 25, T. 6 N., R. 8 W., at offset crossroads, 30 ft. N. and 30 ft. W. from junction of rd. E., 120 ft. N. and 30 ft. W. from junction of rd. W., opposite and in line with fence along N. side of rd. E., at W. fence of N.-S. rd., in concrete post; standard tablet stamped "11 A 1931"-----	686.726
Reference mark, 60 ft. W. of N.-S. rd., on N. side of rd. W., 30 ft. W. of fence corner, inside fence, in root on SE. side of 10-in. wild-cherry tree; copper nail and washer-----	687.87
Elvaston, 4.7 mi. N. of, near NW. cor. sec. 6, T. 5 N., R. 7 W., in SE. angle of crossroads, 15 ft. E. of fence corner, in root on NW. side of 12-in. mulberry tree; copper nail and washer-----	704.09
Elvaston, 3.6 mi. N. of, near NW. cor. sec. 7, T. 5 N., R. 7 W., 290 ft. E. of crossroads, on S. side of rd., at fence line, in root on N. side of 18-in. elm tree; copper nail and washer-----	708.04
Elvaston, 3.1 mi. N. of, near E $\frac{1}{4}$ cor. sec. 12, T. 5 N., R. 8 W., 30 ft. S. and 40 ft. W. from junction of T-rd. W., 10 ft. W. of fence corner, in root on NW. side of small forked elm tree; copper nail and washer-----	702.24
Elvaston, 2.6 mi. N. of, near NW. cor. sec. 18, T. 5 N., R. 7 W., 40 ft. S. and 30 ft. E. from junction of T-rd. E., 10 ft. S. of fence corner, in concrete post; standard tablet stamped "12 A 1931"-----	693.553
Elvaston, 2.1 mi. N. of, 0.1 mi. N. of W $\frac{1}{4}$ cor. sec. 18, T. 5 N., R. 7 W., 510 ft. N. of junction of T-rd. W., on top of S. end of E. head wall of concrete culvert; chiseled square-----	683.55
Elvaston, 1.5 mi. N. of, near SW. cor. sec. 18, T. 5 N., R. 7 W., 340 ft. N. of junction of T-rd. E., at SE. abutment of bridge over Chaney	

	Feet
Creek, on top of E. end of NE. wing wall, 2 ft. from extreme end; top of square bolt-----	659.59
Elvaston, 0.5 mi. N. of intersection of State Highway 10 and range-line rd., near SE. cor. sec. 24, T. 5 N., R. 8 W., in NW. angle of junction of T-rd. W., on top of W. end of NW. wing wall of concrete bridge under rd. W.; chiseled square-----	658.92
Elvaston, 0.7 mi. SW. of sta., 20 ft. N. of intersection of highway and track, on top of N. head wall of concrete culvert under highway; chiseled square ⁷³ (recovered in 1932)-----	667.88
Elvaston, 1.2 mi. W. of, 50 ft. S. and 30 ft. E. from quarter corner between secs. 25 and 26, T. 5 N., R. 8 W., in SE. angle of cross-roads, near entrance to field; standard iron post with bronze cap stamped "Prim Trav Sta No 52 1910"-----	663.821
Reference mark, in NW. angle of crossroads, on top of W. end of N. head wall of concrete culvert under highway; chiseled square-----	665.96
Elvaston, 2.2 mi. W. of, 1.5 mi. E. of E. limits of Hamilton, near E $\frac{1}{4}$ cor. sec. 27, T. 5 N., R. 8 W., in SW. angle of crossroads, on top of W. head wall of concrete culvert under rd. S.; chiseled square-----	663.03
Hamilton, 0.5 mi. E. of E. limits of, near W $\frac{1}{4}$ cor. sec. 27, T. 5 N., R. 8 W., in SE. angle of crossroads, on top of concrete head wall of drain under rd. S.; chiseled square-----	660.64
Hamilton, in SE. angle of junction of State Highways 10 and 96, on top of E. end of S. head wall of concrete culvert; chiseled square-----	642.74
Hamilton, 0.12 mi. E. of junction of State Highway 10 and river road to Nauvoo, in SE. angle of junction of T-street S., opposite NE. corner of public park, at NW. corner of yard of residence, at corner of sidewalk; top of square limestone post-----	643.06
Hamilton, 60 ft. SE. of intersection of Ninth and Main Streets, 150 ft. NW. of school building, in NW. corner of schoolyard; standard iron post with bronze cap stamped "Prim Trav Sta No 53 1910"-----	625.568
Hamilton, in NE. corner of intersection of Main and Second Streets, at foot of bluff, at point where State highway turns W. to toll house, 1.5 ft. E. of N-S. cross walk, 4.5 ft. S. of SW. corner of concrete porch of small store, on square concrete post; chiseled square-----	523.42
Hamilton, 0.2 mi. SW. of sta., on E. side of R. R. to Warsaw, 35 ft. riverward from foot of bluff, 3.3 ft. S. of section house, 4 ft. W. of fence on river side of lane running parallel with R. R.; Mississippi River Comm. B. M. 111/1 cap on iron pipe ⁷⁴ bolt in tile-----	508.220 504.200
4. From point 0.5 mile east of east limits of Hamilton on State Highway 10 south along road to Toledo, Peoria & Western Railroad (by S. R. Archer in 1931)	
Hamilton, 2.7 mi. SE. of sta., near S. cor. secs. 33 and 34, T. 5 N., R. 8 W., 135 ft. W. of rd. crossing, on top of second step at N. end of E. stone abutment of R. R. bridge; chiseled square ⁷⁵ (recovered in 1931)-----	633.80

⁷³ Established as a reference mark to bench mark stamped "670," described in line 1.

⁷⁴ Top of the pipe is 5 in. underground. In 1926 a new pipe was set over the tile and the old pipe was inverted and set alongside.

⁷⁵ Established as a reference mark to bench mark stamped "638," described in line 1.

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	Feet
Hamilton, 2.7 mi. SE. of, 180 ft. S. of iron post, 130 ft. S. of R. R. crossing, on top of W. wing wall of N. abutment of bridge under rd.; chiseled square ⁷⁶	634.84
5. From Elvaston south along range-line road to point near east quarter corner sec. 18, T. 3 N., R. 8 W. (by S. R. Archer in 1932)	
Elvaston, in W. part of, at concrete bridge on State Highway 10 over Bear Creek, 225 ft. E. of junction of T-rd. S., on top of E. post of N. railing of bridge; chiseled square	655.90
[Jogs into Carthage quadrangle, line 5]	
Elvaston, 1.5 mi. S. of, near cor. Tps. 4 and 5 N., Rs. 7 and 8 W., 39 ft. S. and 22 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 9 T 1924"	626.884
Elvaston, 2.0 mi. S. of, near E $\frac{1}{4}$ cor. sec. 1, T. 4 N., R. 8 W., in SW. angle of junction of T-rd. W., in NE. corner of yard of farmhouse, in root on NE. side of 24-in. ash tree; copper nail and washer	656.58
Elvaston, 3.0 mi. S. of, near E $\frac{1}{4}$ cor. sec. 12, T. 4 N., R. 8 W., 40 ft. S. and 25 ft. W. from crossroads, in root on E. side of 12-in. hedge tree; copper nail and washer	663.96
Elvaston, 4.0 mi. S. of, near quarter corner between secs. 13 and 18, T. 4 N., Rs. 7 and 8 W., 150 ft. N. of junction of T-rd. E., on top of NE. end of E. concrete wing wall of N. abutment of bridge; chiseled square	596.90
Elvaston, 4.3 mi. S. of, 0.2 mi. N. of SE. cor. sec. 13, T. 4 N., R. 8 W., on top of S. W. end of W. concrete wing wall of S. abutment of bridge; chiseled square	583.33
Elvaston, 4.5 mi. S. of, near SW. cor. sec. 13, T. 4 N., R. 7 W., 28 ft. N. and 30 ft. E. from crossroads, in SW. corner of pasture, in concrete post; standard tablet stamped "Prim Trav Sta No 10 T 1924"	579.550
Reference mark, 0.21 mi. S. of tablet, at bridge over Little Bear Creek, on top of NW. end of W. concrete wing wall of N. abutment; chiseled square	583.92
Elvaston, 5.5 mi. S. of, near NW cor. sec. 30, T. 4 N., R. 7 W., 80 ft. S. of junction of T-rd. E., on E. side of rd., in fence line, in root on SW. side of 18-in. elm tree; copper nail and washer	625.56
Elvaston, 6.0 mi. S. of, at Sylvandale School, near W $\frac{1}{4}$ cor. sec. 30, T. 4 N., R. 7 W., at offset crossroads, 130 ft. E. of rd. N., 40 ft. W. of junction of rd. S., on N. side of rd., near SE. corner of school-yard, in root on NW. side of 12-in. hickory tree; copper nail and washer	657.22
Elvaston, 6.5 mi. S. of, 0.12 mi. S. of NE. cor. sec. 36, T. 4 N., R. 8 W., on top near center of W. head wall of concrete culvert under rd.; chiseled square	601.24
Elvaston, 7.5 mi. S. of, near cor. Tps. 3 and 4 N., Rs. 7 and 8 W., on S. side of township-line rd., opposite T-rd. N., at fence corner, in root on E. side of 12-in. hickory tree; copper nail and washer	586.98
Elvaston, 7.5 mi. S. of, 0.22 mi. E. of cor. Tps. 3 and 4 N., Rs. 7 and 8 W., in NW $\frac{1}{4}$ sec. 6, at bridge over Bear Creek, on bridge end of S. wing wall of W. concrete abutment; chiseled square	565.06
[Jogs into Carthage quadrangle, line 6]	

⁷⁶ Established as a reference mark to standard iron post stamped "638," described in line 1.

Elvaston, 8.5 mi. S. of, 2.0 mi. N. and 1.5 mi. E. from Hickory Ridge, near NE. cor. sec. 12, T. 3 N., R. 8 W., in SW. angle of intersection of T-rd. W. and private rd. E., on top of W. end of S. head wall of concrete culvert under rd. W.; chiseled square-----

Feet
597.70

Hickory Ridge, 1.5 mi. N. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 7, T. 3 N., R. 7 W., in SE angle of junction of T-rd. E., on top of S. end of S. head wall of concrete culvert under rd. E.; chiseled square-----

588.39

[Continued in Mendon quadrangle, line 4]

6. From point near center of sec. 18, T. 3 N., R. 8 W., along roads roads alternately north and west by way of Mallard to point near west quarter corner sec. 8, T. 3 N., R. 9 W. (by S. R. Archer in 1932)

[Continued from Mendon quadrangle, line 4]

Mallard, 3.2 mi. SE. of, 0.25 mi. W. of center of sec. 18, T. 3 N., R. 8 W., 50 ft. N. and 220 ft. E. from right angle in rd. to N., in pasture, in root on SW. side of 24-in. elm tree; copper nail and washer-----

723.35

Mallard, 2.5 mi. E. of, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 18, T. 3 N., R. 8 W., at offset crossroads, 150 ft. S. of junction of rd. W., 35 ft. N. of rd. E., 15 ft. below level of State Highway 96, on top of N. end of E. head wall of concrete culvert under highway; chiseled square (recovered in 1936)-----

696.97

Mallard, 2.0 mi. E. of, 0.25 mi. N. of center of sec. 13, T. 3 N., R. 9 W., 23 ft. N. and 13 ft. E. from junction of T-rd. N., in line with barn standing on S. side of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 7 T 1924"-----

668.900

Mallard, 1.4 mi. E. of, 0.3 mi. N. of quarter corner between secs. 13 and 14, T. 3 N., R. 9 W., at offset crossroads, 140 ft. W. of rd. N., at lower end of N. wing wall of W. abutment of concrete bridge; chiseled square-----

584.94

Mallard, 0.4 mi. NE. of, near NW. cor. sec. 14, T. 3 N., R. 9 W., on top of S. parapet wall of W. concrete abutment of bridge over creek; chiseled square-----

517.93

Mallard, in NE $\frac{1}{4}$ sec. 15, T. 3 N., R. 9 W., in NE. angle of junction of rd. E., on top of N. head wall of concrete culvert under rd. to E.; chiseled square-----

504.80

Mallard, in NE $\frac{1}{4}$ sec. 15, T. 3 N., R. 9 W., in SW. angle of junction of rd. W., at SE. corner of steel bridge over canal, at foot of E. post of railing along S. side of bridge, on top of E. end of steel I-beam stringer; chiseled square-----

509.09

Mallard, 1.0 mi. W. of, near center of NE $\frac{1}{4}$ sec. 16, T. 3 N., R. 9 W., 160 ft. S. and 150 ft. E. from junction of rd. S., 175 ft. NW. of farmhouse, 38 ft. NW. of NW. corner of corncrib, in root on SW. side of 36-in. boxelder tree; copper nail and washer-----

484.24

Mallard, 0.5 mi. N. and 1.8 mi. W. from, 0.25 mi. N. of S. cor. secs. 8 and 9, T. 3 N., R. 9 W., in NW. angle of junction of T-rd. N., in root on NW. side of 30-in. elm tree; copper nail and washer (recovered in 1936)-----

480.04

Mallard, 0.8 mi. N. and 2.2 mi. W. from, 0.13 mi. E. of center of sec. 8, T. 3 N., R. 9 W., 10 ft. S. of center line of E.-W. rd., opposite farmhouse on N. side of rd., 40 ft. E. of fence line S., in root on SE. side of 36-in. pecan tree; copper nail and washer-----

482.42

Mallard, 0.8 mi. N. and 2.7 mi. W. from, near W $\frac{1}{4}$ cor. sec. 8, T. 3 N., R. 9 W., about 30 ft. E. of farm rd. which leads back from frame house at levee, on W. side of field, 0.37 mi. E. of levee, 230 ft. S. and 40 ft. E. from SE. corner of timber and fence corner, 260 ft. S. of large deep pond, 300 ft. NE. of fork in rd. on section line; Mississippi River Comm. B. M. 107/1	Feet
cap on iron pipe-----	484. 850
bolt in tile-----	480. 840
7. From Mallard northwest along road to Warsaw, thence northeast along State Highway 96 and roads to point on Toledo, Peoria & Western Railroad 2.7 miles southeast of Hamilton (by S. R. Archer in 1932)	
Mallard, 0.4 mi. NW. of, near center of SE $\frac{1}{4}$ sec. 10, T. 3 N., R. 9 W., at angle in rd., 120 ft. S. of farmhouse of G. D. Martin, on top of N. end of W. head wall of concrete culvert; chiseled square-----	506. 53
Mallard, 0.8 mi. NW. of, about 0.13 mi. N. of center of sec. 10, T. 3 N., R. 9 W., 150 ft. N. of rd. fork, at N. end of bridge over drainage canal, on top of E. cylindrical pier filled with concrete; chiseled square-----	513. 52
Mallard, 0.9 mi. N. of, 0.25 mi. N. of center of sec. 10, T. 3 N., R. 9 W., 260 ft. SE. of bridge over Rocky Run Creek, 0.13 mi. N. of bridge over drainage canal, on E. side of rd., 11 ft. W. of NW. corner of yard fence of dwelling of J. L. Dougherty, in concrete post; standard tablet stamped "Prim Trav Sta No 8 T 1924"-----	505. 394
Mallard, 1.9 mi. NW. of, 0.14 mi. NW. of center of sec. 3, T. 3 N., R. 9 W., 200 ft. S. of junction of private rd. E., 280 ft. S. of farmhouse of Theo. Troutvetter, on top of N. end of N. wing wall of E. abutment of concrete bridge; chiseled square-----	516. 78
Mallard, 2.2 mi. NW. of, 0.08 mi. S. and 0.12 mi. W. from N $\frac{1}{4}$ cor. sec. 3, T. 3 N., R. 9 W., at E. end of concrete culvert, on top of N. end of N. retaining wall; chiseled square-----	513. 55
Mallard, 3.0 mi. NW. of, in NW $\frac{1}{4}$ sec. 34, T. 4 N., R. 9 W., on top of N. end of E. head wall of concrete culvert; chiseled square-----	511. 38
Mallard, 3.8 mi. NW. of, 3.5 mi. S. of Warsaw, 0.3 mi. E. of center of sec. 28, T. 4 N., R. 9 W., 20 ft. N. and 25 ft. E. from junction of rd. W., 5 ft. E. of fence corner, on S. bank of drain, in concrete post; standard tablet stamped "1 A 1932"-----	519. 340
Reference mark, 40 ft. N. of junction of rd. W., on top of E. head wall of concrete culvert under N.-S. rd.; chiseled square-----	517. 18
Warsaw, 2.9 mi. S. of, in SE $\frac{1}{4}$ sec. 21, T. 4 N., R. 9 W., at concrete bridge over Shuhart Creek, on bridge end of W. wing wall of N. abutment; chiseled square-----	504. 85
Warsaw, 1.8 mi. S. of, near quarter corner between secs. 16 and 21, T. 4 N., R. 9 W., on S. side of town-line rd., 20 ft. W. of junction of rd. N., 25 ft. W. of private rd. S., in root on NW. side of 12-in. hedge tree; copper nail and washer-----	493. 05
Warsaw, 1.2 mi. S. of, near center of SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 4 N., R. 9 W., in NE. angle of junction of rd. E., at SE. corner of bridge, on concrete retaining wall; chiseled square-----	496. 91
Warsaw, in SW. part of, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 16, T. 4 N., R. 9 W., 50 ft. N. of junction of T-rd. E., 426 ft. below shoe factory, 410 ft. from left bank, in SE. corner of lot, 16 ft. W. of N.-S. rd.; Mississippi River Comm. B. M. 109/2	
cap on iron pipe-----	499. 640
bolt in tile-----	495. 680

	Feet
Reference mark, 12 ft. E. of pipe, on W. side of N.-S. rd., in root on SE. side of 24-in. maple tree, northernmost in row; copper nail and washer-----	499. 43
Warsaw, at SE. corner of intersection of Main and Fourth Streets, at NW. corner of Farmers State Bank building, in W. face, 4 ft. above sidewalk; standard tablet stamped "1932 577"-----	576. 621
Warsaw, 1.0 mi. E. of, 0.12 mi. S. of center of NE $\frac{1}{4}$ sec. 10, T. 4 N., R. 9 W., in SE. angle of junction of T-rd. S., on top of N. end of E. head wall of concrete culvert under rd. S.; chiseled square-----	606. 89
Warsaw, 1.8 mi. E. of, near center of sec. 11, T. 4 N., R. 9 W., 110 ft. W. of crossroads, 165 ft. E. of highway sign "Warsaw," on N. side of highway, on top of E. head wall of concrete culvert under driveway to barn lot; chiseled square-----	709. 07
Warsaw, 2.8 mi. E. of, 0.25 mi. N. and 0.2 mi. W. from center of sec. 12, T. 4 N., R. 9 W., 0.2 mi. SW. of crossroads, at concrete highway bridge over Cedar Glen Creek, on top of S. parapet of E. abutment; chiseled square-----	611. 72
Warsaw, 3.0 mi. E. of, 0.3 mi. N. of center of sec. 12, T. 4 N., R. 9 W., 200 ft. E. of crossroads, at S. line of highway, 1 ft. W. of concrete right-of-way post, 10.3 ft. W. of sign "Route 96," in concrete post; standard tablet stamped "2 A 1932"-----	642. 204
Reference mark, 185 ft. W. of tablet, in SE. angle of crossroads, on top of N. end of E. head wall of concrete culvert under rd. S.; chiseled square-----	639. 72
Warsaw, 3.5 mi. E. of, near NW. cor. sec. 7, T. 4 N., R. 8 W., at Y-junction of main highway and branch W. to Warsaw, 235 ft. E. of rd. N. along range line, 200 ft. W. of E. corner of triangle, 35 ft. N. of center line of pavement along N. side of triangle, on top of E. head wall of concrete culvert under private rd. N.; chiseled square-----	634. 75
Warsaw, 4.2 mi. NE. of, 0.12 mi. NE. of S $\frac{1}{4}$ cor. sec. 6, T. 4 N., R. 8 W., 500 ft. E. of crossroads, at concrete bridge over Crystal Glen Creek, on top of N. parapet of W. abutment; chiseled square-----	611. 49
Warsaw, 5.0 mi. NE. of, 2.0 mi. S. of Hamilton, about 0.3 mi. S. of center of sec. 5, T. 4 N., R. 8 W., 265 ft. W. of crossroads, 115 ft. NE. of W. corner of triangle formed by highway and rds. S. and NE., on top of NE. end of SE. head wall of concrete culvert under highway; chiseled square-----	652. 31
Hamilton, 2.0 mi. S. along highway thence 0.8 mi. along rd. NE. from, 0.3 mi. W. of center of sec. 4, T. 4 N., R. 8 W., 165 ft. SW. of crossing of E.-W. quarter section line, on NW. side of rd., in root on SE. side of 26-in. ash tree; copper nail and washer-----	657. 42
Hamilton, 2.0 mi. S. thence 1.5 mi. NE. from, in NE $\frac{1}{4}$ sec. 4, T. 4 N., R. 8 W., 0.15 mi. SW. of crossroads, on top of NE. end of NE. wing wall of concrete bridge; chiseled square-----	637. 69
8. Along road north and east in secs. 17 and 8, T. 3 N., R. 9 W., to road junction 0.5 mile north and 1.8 miles west from Mallard (by S. R. Archer in 1936)	481. 55
[Continued from Mendon quadrangle, line 6]	
T. 3 N., R. 9 W., near center of NE $\frac{1}{4}$ sec. 17, 150 ft. S. of farmhouse on E. side of rd., at SW. corner of garden, on E. side of rd., in root on SW. side of 24-in. pecan tree; copper nail and washer-----	

LACON QUADRANGLE
 [Latitude $41^{\circ}00'$ – $41^{\circ}15'$; longitude $89^{\circ}15'$ – $89^{\circ}30'$]
BUREAU, PUTNAM, AND MARSHALL COUNTIES

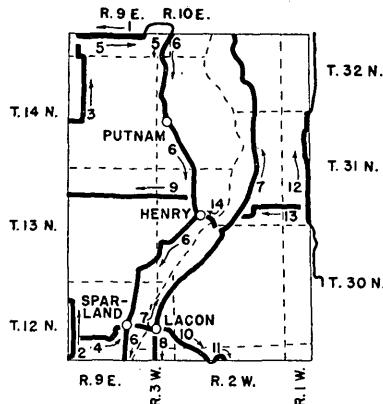


FIGURE 120.—Lines of leveling in Lacon quadrangle.

1. From point 4.3 miles southwest of Bureau south 0.1 mile to crossroads, thence west 3.5 miles to crossroads, thence north 0.1 mile to point 2.9 miles south and 0.5 mile east from Tiskilwa (by Henry Bücher in 1908)

[Continued from Hennepin quadrangle, line 1]

Bureau, 4.4 mi. SW. of, 4.2 mi. W. of Hennepin, 3.0 mi. S. and 4.0 mi. E. from Tiskilwa, at Nye School, near quarter corner between secs. 26 and 35, T. 15 N., R. 9 E., on E. side of junction of T-rd. W., in NW. corner of schoolyard, 14 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "656" ⁷⁶---

Bureau, 4.4 mi. SW. of, 4.2 mi. W. of Hennepin, 3.0 mi. S. and 4.0 mi. E. from Tiskilwa, near $\frac{1}{4}$ cor. sec. 35, T. 15 N., R. 9 E., 50 ft.

S. and 50 ft. W. from crossroads, in fence corner, in concrete post; standard tablet (set in 1929 to replace standard iron post stamped "656")

Reference mark, 100 ft. S. and 200 ft. E. from crossroads, in front of schoolhouse, on concrete platform; chiseled square (established in 1929) -----

Tiskilwa, 3.0 mi. S. and 0.5 mi. E. from, near NW. cor. sec. 32, T.

15 N., R. 9 E., 40 ft. SE. of crossroads, in line with E.-W. fence, 2 ft. W. of N.-S. hedgerow; standard iron post with bronze cap stamped "Prim Trav Sta No 12 1908 687" (recovered in 1927) ---

Feet
655. 352

657. 792

657. 24

687. 137

[Continued in Hennepin quadrangle, line 2]

⁷⁶ In 1929 this bench mark was destroyed in highway construction, and a new bench mark was set near this location.

2. From point near southwest corner sec. 20, T. 12 N., R. 9 E., east to crossroads at south quarter corner of section, thence north and west to point 1.2 miles north and 3.1 miles west from Sparland (by H. S. Senseney in 1927)

[Continued from Camp Grove quadrangle, line 4]

T. 12 N., R. 9 E., 27 ft. N. and 190 ft. E. from S $\frac{1}{4}$ cor. sec. 20, 1.8 mi. S. and 3.0 mi. W. from Sparland, in NE. angle of crossroads, at SE. corner of churchyard, in concrete post; standard tablet stamped "Prim Trav Sta No 31 T 1924"-----	Feet 669.456
Reference mark, 220 ft. SW. of tablet, in SW. angle of crossroads, on culvert; chiseled square-----	666.04
Sparland, 0.8 mi. S. and 3.0 mi. W. from, near N $\frac{1}{4}$ cor. sec. 20, T. 12 N., R. 9 E., in SE. angle of crossroads, on culvert; chiseled square-----	689.70
Sparland, 0.2 mi. N. and 3.0 mi. W. from, near quarter corner between secs. 8 and 17, T. 12 N., R. 9 E., on E. side of rd., at junction of T-rd. W., 35 ft. N. of fence corner, 3.5 ft. S. and 2 ft. E. from telephone pole; top of cap on 1-in. iron pipe (probably destroyed by highway construction)-----	706.22
Sparland, 0.7 mi. N. and 3.0 mi. W. from, near center of sec. 8, T. 12 N., R. 9 E., on W. side of rd. at junction of T-rd. E., on N. end of culvert; chiseled square-----	704.54

[Continued in Camp Grove quadrangle, line 5]

3. From point 2.5 miles north of Whitefield east along road to Lone Tree Corners, thence north to crossroads 3 miles south and 0.5 mile east from Tiskilwa (by H. S. Senseney in 1927)

[Continued from Camp Grove quadrangle, line 5]

Lone Tree Corners, 2.5 mi. N. and 1.0 mi. E. from Whitefield, 4.7 mi. in air line W. of Putnam, near W $\frac{1}{4}$ cor. sec. 21, T. 14 N., R. 9 E., in SE. angle of crossroads, on culvert; chiseled square-----	706.58
Lone Tree Corners, 0.5 mi. N. of, near NE. cor. sec. 20, T. 14 N., R. 9 E., 32 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 27 T 1924"-----	711.076
Reference mark, 500 ft. N. of tablet, on E. side of rd., on culvert; chiseled square-----	703.31
Lone Tree Corners, 2.0 mi. N. of, near E $\frac{1}{4}$ cor. sec. 8, T. 14 N., R. 9 E., in SW. angle of crossroads, on culvert; chiseled square-----	686.68
Lone Tree Corners, 3.5 mi. N. of, 4.0 mi. S. and 0.8 mi. E. from Tiskilwa, near NW. cor. sec. 4, T. 14 N., R. 9 E., in SE. angle of junction of T-rd. S., at fence corner, in line with hedgerow E.; top of cap on 1-in. iron pipe-----	663.42

4. From crossroads 0.8 mile south and 3 miles west from Sparland east and northeast along road to Sparland (by H. S. Senseney in 1927)

Sparland, 2.3 mi. SW. of, 0.25 mi. W. of SE. cor. sec. 16, T. 12 N., R. 9 E., in NW. angle of crossroads, on culvert; chiseled square-----	656.58
Sparland, 0.8 mi. SW. of, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 15, T. 12 N., R. 9 E., 190 ft. S. of rd. fork, on W. side of rd., on culvert; chiseled square-----	484.51

Sparland, in NW. corner of intersection of Railroad and Walnut Streets, in SE. corner of lot 14 of Cotton's first addition to Sparland, 5.4 ft. SE. of catalpa tree in corner of yard of dwelling of Fred Vincent; U. S. C. E. B. M. 63	Feet
cap on iron pipe-----	459. 166
bolt in stone-----	455. 212
5. From crossroads 3 miles south and 0.5 mile east from Tiskilwa along roads east 3.5 miles, thence northeast to State Highway 29, thence south along highway to point 3.4 miles north of Putnam (by J. A. Shumate in 1927)	
Tiskilwa, 3.0 mi. S. and 1.5 mi. E. from, near SW. cor. sec. 28, T. 15 N., R. 9 E., 350 ft. E. of junction of T-rd. S., 6 ft. from E. end of N. head wall of concrete culvert; chiseled square-----	632. 98
Tiskilwa, 3.0 mi. S. and 2.1 mi. E. from, 0.1 mi. E. of N $\frac{1}{4}$ cor. sec. 33, T. 15 N., R. 9 E., 500 ft. E. of junction of T-rd. N., 15 ft. S. and 12 ft. E. from center of concrete bridge, in S. end of E. abutment; standard tablet ⁷⁷ -----	624. 192
Reference mark, 30 ft. S. and 100 ft. E. from junction of T-rd. N., in root on E. side of 15-in. walnut tree; copper nail and washer-----	650. 52
Tiskilwa, 3.0 mi. S. and 3.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 34, T. 15 N., R. 9 E., in SW. angle of junction of T-rd. S., in root on S. side of 15-in. maple tree; copper nail and washer-----	654. 27
Tiskilwa, 3.0 mi. S. and 4.0 mi. E. from, 4.4 mi. SW. of Bureau, at Nye School, near quarter corner between secs. 26 and 35, T. 15 N., R. 9 E., in NW. corner of schoolyard, in root on W. side of 36-in. hackberry tree; copper nail and washer-----	656. 42
[Jogs into Hennepin quadrangle, line 7]	
Bureau, 3.3 mi. SW. of, 4.5 mi. N. of Putnam, near NE. cor. sec. 36, T. 15 N., R. 9 E., at concrete bridge on State Highway 29, on W. end of N. abutment; chiseled square (recovered in 1929)-----	478. 59
Putnam, 3.4 mi. N. of, in NW $\frac{1}{4}$ sec. 6, T. 14 N., R. 10 E., on W. side of highway, 500 ft. S. of Bureau-Putnam county line, in NE. corner of front yard of farmhouse of William Anderson; U. S. C. E. B. M. 68	
cap on iron pipe-----	475. 189
bolt in stone-----	471. 256
6. From point 4.5 miles north of Putnam south along State Highway 29 to point 1.8 miles south of Sparland (by E. E. Harris in 1929; first-order leveling)	
Putnam, 3.8 mi. N. of, 15 ft. W. of center line of highway, at concrete culvert, on top 1 ft. from S. end of head wall; chiseled square-----	487. 00
Putnam, 2.9 mi. N. of, 0.6 mi. S. of Bureau-Putnam county line, on N. slope of hill, 350 ft. N. of summit of grade, 28 ft. W. of center line of highway, 8 ft. E. of fence, in concrete post; standard tablet stamped "1 H 1929"-----	478. 730
Reference mark, 0.19 mi. N. of tablet, on W. side of highway, at concrete culvert, on top near center of head wall; chiseled square-----	461. 86
Putnam, 2.0 mi. N. of, 216 ft. S. of junction of rd. NW., 14 ft. W. of center line of highway, at concrete culvert, on top near center of parapet; chiseled square-----	477. 55

⁷⁷ Established in 1929 to replace standard tablet stamped "JS 14 1927," which was destroyed when the bridge was rebuilt.

	Feet
Putnam, 1.2 mi. N. of, at concrete highway bridge over Senachwine Creek, on S. end of E. abutment; chiseled square-----	467.34
Putnam, 0.5 mi. N. of, at concrete bridge, 11 ft. W. of center line of highway, 4 ft. above bridge floor, on top of parapet, 1.3 ft. from S. end; chiseled square-----	505.78
Putnam, in NE. angle of highway intersection, 131 ft. SE. of NE. corner of First Methodist Episcopal Church, 20 ft. W. of soft-maple tree, 5.4 ft. N. of fence, in SE. corner of churchyard; U. S. C. E. B. M. 67	
cap on iron pipe-----	526.275
bolt in stone-----	522.302
Putnam, 0.9 mi. SE. of, 14 ft. W. of center line of highway, 64 ft. S. of fence corner, at concrete culvert, on top near center of head wall; chiseled square-----	508.16
Putnam, 2.2 mi. SE. of, 300 ft. SW. of Chicago, Rock Island & Pacific Railway trestle 1242, at concrete bridge over Dry Hollow Creek, 11 ft. W. of center line of highway, on top near center of parapet; chiseled square-----	502.34
Putnam, 2.9 mi. SE. of, 2.7 mi. N. of C. R. I. & P. Ry. sta. at Henry, 53.5 ft. NW. of post marking Marshall-Putnam county line, 46 ft. SW. of R. R. track, 2.6 ft. S. of N. fence line of highway; U. S. C. E. B. M. 66	
cap on iron pipe-----	520.773
bolt in stone-----	516.846
Henry, 1.7 mi. N. of, at crossroads, 26 ft. W. of center line of highway, 26 ft. N. of center line of dirt rd., on top of NE. corner of concrete culvert; chiseled square-----	531.41
Henry, 1.2 mi. N. of, at crossroads, 29 ft. W. of center line of highway, 19 ft. N. of center line of dirt rd., at concrete culvert, on top of angle in head wall; chiseled square-----	534.79
Henry, 0.5 mi. N. of C. R. I. & P. Ry. sta. at entrance to fair grounds, 17 ft. W. of center line of highway, on top of head wall of concrete culvert; chiseled square-----	509.71
Henry, 0.3 mi. SW. of C. R. I. & P. Ry. sta., 1,004 ft. SW. along track from milepost 128, 4.5 ft. SE. of NW. right-of-way fence between R. R. and highway; U. S. C. E. B. M. 65	
cap on iron pipe-----	490.596
bolt in stone-----	486.659
Henry, 1.2 mi. SW. of, 16 ft. W. of center line of highway, 8.5 ft. N. of rd. W., at jog in E.-W. rd., on top near center of head wall of concrete culvert; chiseled square-----	485.34
Henry, 1.9 mi. SW. of, 0.23 mi. E. of Merritt School, just W. of angle W. in highway, 14 ft. N. of center line, on top near center of head wall of concrete culvert; chiseled square-----	484.40
Henry, 2.4 mi. SW. of, 44 ft. W. of angle S. in highway, 20 ft. S. of center line of dirt rd. W., at concrete culvert, on top near center of E. head wall; chiseled square-----	474.32
Henry, 3.0 mi. SW. of, 4.2 mi. NE. of Sparland, 1,031 ft. NE. along C. R. I. & P. Ry. track from milepost 131, 45 ft. NW. of center line of track, 5.4 ft. from right-of-way fence between R. R. and highway; U. S. C. E. B. M. 64	
cap on iron pipe-----	474.182
bolt in stone-----	470.232

	Feet
Sparland, 3.4 mi. NE. of, at steel highway bridge over Crow Creek, on top near center of NW. wing wall; chiseled square-----	456. 18
Sparland, 2.9 mi. NE. of, 165 ft. S. of junction of rd. NW., at foot of bluffs, 12 ft. E. of center line of highway, on concrete culvert, 0.5 ft. from S. end of head wall; chiseled square-----	493. 38
Sparland, 2.4 mi. NE. of, 80 ft. SE. of small cemetery, 44 ft. NE. of drain, 24 ft. E. of center line of highway, 21 ft. S. and 4 ft. W. from fence corner, 3 ft. lower than surface of highway, in concrete post; standard tablet stamped "2 H 1929"-----	500. 691
Reference mark, 238 ft. N. of tablet, at concrete culvert, on top near S. end of W. head wall; chiseled square-----	502. 58
Sparland, 1.4 mi. NE. of, 14 ft. W. of center line of highway, on top near center of head wall of concrete culvert; chiseled square-----	469. 22
Sparland, 0.5 mi. NE. of, at steel highway bridge over Thenius Creek, on SW. concrete wing wall; chiseled square-----	460. 58
Sparland, in NW. corner of intersection of Railroad and Walnut Streets, in SE. corner of lot 14 of Cotton's first addition to Sparland, 5.4 ft. SE. of catalpa tree in corner of yard of dwelling of Fred Vincent; U. S. C. E. B. M. 63	
cap on iron pipe-----	459. 166
bolt in stone-----	455. 212
Sparland, 0.8 mi. S. of, 13 ft. W. of center line of highway, at concrete culvert, on top at center of head wall; chiseled square-----	465. 36
Sparland, 1.6 mi. S. of, at Hy-Tex brick plant, 23 ft. N. of concrete retaining wall of tramway, 18 ft. W. of center line of highway, on top near center of head wall of culvert; chiseled square-----	467. 09
[Continued in Metamora quadrangle, line 3]	
7. From Sparland east along State Highway 17 to Lacon, thence northeast and northwest along valley road on east side of Illinois River to point near Hennepin (by E. E. Harris in 1928)	
Sparland, 0.6 mi. E. of, 1.1 mi. W. of Lacon, on S. side of highway, at curve, on W. end of retaining wall; chiseled square-----	459. 95
Lacon, 0.4 mi. W. of, on E. side of Illinois River, on S. side of highway, on E. end of retaining wall; chiseled square-----	457. 49
Lacon, 46 ft. SW. of SW. corner of Marshall County courthouse, in yard of courthouse, in SW. corner of large concrete base for cannon mount; standard tablet stamped "21 H 1929"-----	495. 493
Reference mark, 105 ft. S. 45° W. from tablet, at corner lamppost, on NW. corner of stone block foundation; chiseled square-----	492. 14
Lacon, 0.9 mi. N. of, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 24, T. 30 N., R. 3 W., 60 ft. N. and 29 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "22 H 1929"-----	487. 517
Reference mark, 86 ft. N. of tablet, on head wall of small concrete culvert at driveway; chiseled square-----	487. 78
Lacon, 2.0 mi. NE. of, in NE $\frac{1}{4}$ sec. 24, T. 30 N., R. 3 W., 46 ft. E. of rd., 35 ft. N. of private rd. E., in root on W. side of 15-in. twin oak tree; copper nail and washer-----	470. 06
Lacon, 3.0 mi. NE. of, 0.4 mi. SW. of Brown Run School, 0.25 mi. NW. of center of sec. 18, T. 30 N., R. 2 W., 12 ft. NW. of rd., on head wall of concrete culvert; chiseled square-----	456. 16
Lacon, 3.6 mi. NE. of, 0.3 mi. NE. of Brown Run School, near SE. cor. fractional sec. 7, T. 30 N., R. 2 W., opposite house on hillside, 24 ft. NW. of rd., 4.5 ft. N. of angle post in fence, in concrete post; standard tablet stamped "23 H 1929"-----	458. 203

	Feet
Reference mark, 206 ft. S. of tablet, on SE. head wall of concrete culvert; chiseled square-----	457. 16
Lacon, 4.4 mi. NE. of, near NW. cor. SE $\frac{1}{4}$ fractional sec. 8, T. 30 N., R. 2 W., on SE. side of rd., on NW. corner of SE. wing wall of concrete culvert; chiseled square-----	477. 72
Lacon, 4.8 mi. NE. of, 0.25 mi. SE. of NE. cor. fractional sec. 8, T. 30 N., R. 2 W., 17 ft. NW. of rd., 7 ft. S. of rd. W. through gate, on head wall of concrete culvert; chiseled square-----	474. 92
Lacon, 5.6 mi. NE. of, in SW $\frac{1}{4}$ fractional sec. 4, T. 30 N., R. 2 W., 40 ft. W. of junction of private rd., 12 ft. NW. of rd., on top near center of head wall of concrete culvert; chiseled square-----	465. 30
Lacon, 6.3 mi. NE. of, 2.4 mi. SE. of C. R. I. & P. Ry. sta. at Henry, in NE $\frac{1}{4}$ fractional sec. 4, T. 30 N., R. 2 W., 28 ft. SW. and 28 ft. SE. from rd. junction, 4 ft. S. of fence corner, in concrete post; standard tablet stamped "24 H 1929"-----	457. 667
Reference mark, 115 ft. S.45°W. from tablet, on large black boulder; chiseled square-----	460. 52
Lacon, 7.0 mi. NE. of, near NW. cor. sec. 8, T. 30 N., R. 2 W., just S. of Marshall-Putnam county line, in E. angle of junction of State Highway 18 and rd. SE., in root on N. side of 15-in. locust tree; copper nail and washer-----	459. 04
Lacon, 7.9 mi. NE. of, 2.0 mi. in air line E. of Henry, in fractional sec. 34, T. 31 N., R. 2 W., on SE. side of Sawmill Lake, in S. angle of junction of rd. SE., on head wall of concrete culvert; chiseled square-----	456. 73
Lacon, 8.3 mi. NE. of, near NE. cor. fractional sec. 34, T. 31 N., R. 2 W., on NW. side of rd., at Ke View truck farm, on head wall of culvert; chiseled square-----	472. 89
Lacon, 9.9 mi. NE. of, 9.1 mi. SE. of Putnam County courthouse at Hennepin, 0.5 mi. SW. of Poole School, 0.2 mi. S. of center of sec. 23, T. 31 N., R. 2 W., 50 ft. N. of junction of rd. E., 31 ft. E. of rd., 2 ft. W. of fence, in concrete post; standard tablet stamped "25 H 1929"-----	469. 511
Reference mark, 0.25 mi. NE. of tablet, at concrete culvert, on top near center of SE. head wall; chiseled square-----	462. 15
Hennepin, 8.5 mi. SE. of, in front of Poole School, near center of NE $\frac{1}{4}$ sec. 23, T. 31 N., R. 2 W., 25 ft. E. of center line of rd., in root on W. side of 70-in. locust tree; copper nail and washer-----	465. 44
Hennepin, 7.8 mi. SE. of, 0.25 mi. E. of center of fractional sec. 14, T. 31 N., R. 2 W., 50 ft. S. and 12 ft. W. from junction of T-rd. E., at concrete culvert, on S. end of W. head wall; chiseled square-----	460. 95
Hennepin, 6.7 mi. SE. of, near center of fractional sec. 11, T. 31 N., R. 2 W., on E. side of rd., on top near center of head wall of concrete culvert; chiseled square-----	469. 98
Hennepin, 6.3 mi. SE. of, near N $\frac{1}{4}$ cor. sec. 11, T. 31 N., R. 2 W., 27 ft. S. and 39 ft. E. from crossroads, 10 ft. E. of fence corner, in concrete post; standard tablet stamped "26 H 1929"-----	488. 797
Reference mark, 650 ft. N.10°W. from tablet, on W. head wall of concrete culvert; chiseled square-----	487. 75
Hennepin, 5.8 mi. SE. of, near center of sec. 2, T. 31 N., R. 2 W., 70 ft. S. and 18 ft. E. from junction of private rd. W., in root on SW. side of 48-in. elm tree; copper nail and washer-----	496. 21

	Feet
Hennepin, 5.3 mi. SE. of, 250 ft. SE. of Sand Prairie School, near S $\frac{1}{4}$ cor. sec. 35, T. 32 N., R. 2 W., in NW. angle of crossroads, in root on W. side of 40-in. burr-oak tree; copper nail and washer-----	486. 46
Hennepin, 4.5 mi. SE. of, 0.25 mi. N. of center of sec. 35, T. 32 N., R. 2 W., in NE. angle of junction of T-rd. E., in root on W. side of 36-in. white-oak tree; copper nail and washer-----	531. 41
Hennepin, 3.8 mi. SE. of, in SW $\frac{1}{4}$ sec. 26, T. 32 N., R. 2 W., 985 ft. SE. of sharp angle from NW. to W. in rd., 10 ft. SW. of rd., on top near center of head wall of concrete culvert; chiseled square-----	538. 76
Hennepin, 3.1 mi. SE. of, in NE $\frac{1}{4}$ sec. 27, T. 32 N., R. 2 W., on W. side of rd., in NE. corner of front yard of dwelling of Adolph Mekley, in concrete post; standard tablet stamped "27 H 1929"-----	459. 023
Reference mark, 63 ft. S. of tablet, in root on W. side of 24-in. elm tree; copper nail and washer-----	460. 16
Hennepin, 2.4 mi. SE. of, 0.13 mi. W. of E $\frac{1}{4}$ cor. sec. 22, T. 32 N., R. 2 W., 60 ft. S. of junction of second-class rd. W., 15 ft. E. of rd., on top near S. end of head wall of concrete culvert; chiseled square-----	468. 87
Hennepin, 1.5 mi. SE. of, 0.2 mi. NW. of S $\frac{1}{4}$ cor. sec. 15, T. 32 N., R. 2 W., 55 ft. S. of driveway W., 15 ft. E. of rd., in root on NW. side of 30-in. white-oak tree; copper nail and washer-----	461. 88
Hennepin, 0.8 mi. SE. of Putnam County courthouse, near N $\frac{1}{4}$ cor. sec. 15, T. 32 N., R. 2 W., 140 ft. S. of junction of NW.-SE. rd., 30 ft. W. of center line of rd., 2.5 ft. E. of fence, in concrete post; standard tablet stamped "28 H 1929"-----	528. 778

[Connects with line 6 in Hennepin quadrangle]

8. From Lacon south along valley road 1.9 miles (by E. E. Harris in 1929)

Lacon, 0.7 mi. S. of Marshall County courthouse, 0.4 mi. E. of N. end of Sawyer Slough, at angle SE. in rd., 11 ft. W. of center line of rd., on top near center of concrete wing wall of bridge; chiseled square-----	462. 28
Lacon, 1.3 mi. S. of, near NW. cor. sec. 1, T. 29 N., R. 3 W., in SE. angle of junction of T-rd. E., on top near center of head wall of concrete culvert; chiseled square-----	472. 29

[Continued in Metamora quadrangle, line 4]

9. From crossroads 1.2 miles north of Chicago, Rock Island & Pacific Railway station at Henry west along road to point 1.5 miles south and 0.2 mile east from Whitefield (by E. E. Harris in 1929)

Henry, 1.2 mi. N. thence 1.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 8, T. 13 N., R. 10 E., 44 ft. S. and 27 ft. E. from junction of second-class rd. N., in root on NW. side of leaning apple tree; copper nail and washer-----	533. 88
T. 13 N., R. 10 E., near center of sec. 7, 33 ft. N. and 61 ft. W. from junction of T-rd. S., 1.5 ft. S. of fence, in concrete post; standard tablet stamped "12 H 1929"-----	506. 534
Reference mark, 496 ft. W. of tablet, in root on N. side of tree, easternmost of three large cottonwood trees; copper nail and washer-----	506. 08

	Feet
T. 13 N., R. 9 E., 0.17 mi. W. of E $\frac{1}{4}$ cor. sec. 12, at concrete bridge over Crow Creek, on top near center of wing wall; chiseled square-----	507. 99
T. 13 N., R. 9 E., near W $\frac{1}{4}$ cor. sec. 12, on N. side of rd., on top near center of head wall of concrete culvert; chiseled square-----	594. 88
T. 13 N., R. 9 E., 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 11, 21 ft. S. of rd., 36 ft. E. of private rd. S., 2 ft. N. of fence, in concrete post; standard tablet stamped "11 H 1929"-----	644. 004
T. 13 N., R. 9 E., near center of sec. 10, 39 ft. S. and 12 ft. W. from crossroads, at concrete bridge, on top near center of NW. wing wall; chiseled square-----	614. 57
T. 13 N., R. 9 E., 0.14 mi. E. of center of sec. 9, at concrete bridge, on SW. wing wall; chiseled square-----	644. 80
T. 13 N., R. 9 E., near W $\frac{1}{4}$ cor. sec. 9, 1.5 mi. S. and 1.0 mi. E. from Whitefield, 29 ft. N. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "10 H 1929"-----	674. 325
Reference mark, 1,820 ft. W. of tablet, in root on SE. side of 48-in. soft-maple tree; copper nail and washer-----	682. 25

[Connects with line 5 in Camp Grove quadrangle]

10. From Lacon east 0.6 mile along State Highway 17, thence southeast 2.8 miles along road (by E. E. Harris in 1929)

Lacon, 0.6 mi. E. of, in SW. angle of junction of highway and gravel rd. SE., on head wall of concrete culvert; chiseled square-----	536. 72
Lacon, 0.6 mi. E. thence 0.8 mi. SE. from, in SW $\frac{1}{4}$ sec. 31, T. 30 N., R. 2 W., on SE. end of SW. parapet of small concrete bridge; bottom of chiseled hole-----	534. 99
Lacon, 0.6 mi. E. thence 1.7 mi. SE. from, 0.15 mi. E. of NW. cor. sec. 5, T. 29 N., R. 2 W., 41 ft. S. of township-line rd. E., 25 ft. N. of NW. SE. rd., in concrete post; standard tablet stamped "29 H 1929"-----	640. 867
Reference mark, 252 ft. S. 65° E. from tablet, on N. end of N. W. wing wall of concrete culvert; chiseled square-----	635. 41
Lacon, 0.6 mi. E. thence 2.3 mi. SE. from, in NE $\frac{1}{4}$ sec. 5, T. 29 N., R. 2 W., at bridge, on SW. wing wall; chiseled square-----	639. 41

[Continued in Metamora quadrangle, line 7]

11. East and south 0.5 mile along road in sec. 4, T. 29 N., R. 2 W. (by E. E. Harris in 1929)

[A jog from Metamora quadrangle, line 7]

Lacon, 4.3 mi. SE. of, near center of SE $\frac{1}{4}$ sec. 4, T. 29 N., R. 2 W., on SW. side of right-angle turn in rd. from E. to S., in root on W. side of 12-in. walnut tree; copper nail and washer-----	662. 80
---	---------

[Continued in Metamora quadrangle, line 7]

12. From point on Marshall-Putnam county line 0.6 mile south and 2.9 miles west from Magnolia generally north along roads to point 1 mile north and 2.1 miles west from McNabb (by E. E. Harris in 1929)

[A jog from Wenona quadrangle, line 5]

Magnolia, 0.5 mi. S. and 2.9 mi. W. from, about 500 ft. N. of Marshall-Putnam county line and S $\frac{1}{4}$ cor. sec. 32, T. 31 N., R. 1 W., in NW. angle of junction of private rd. W. to farmhouse, in root on E. side of 30-in. white-oak tree; copper nail and washer-----	669. 68
--	---------

Magnolia, 0.4 mi. N. thence 2.9 mi. W. from, 30 ft. N. and 25 ft. W. from S $\frac{1}{4}$ cor. sec. 29, T. 31 N., R. 1 W., in SE corner of old church-yard, in concrete post; standard tablet stamped "Prim Trav Sta No 67 T 1924"-----	Feet 693. 864
Magnolia, 1.5 mi. N. and 2.9 mi. W. from, 0.14 mi. N. of S $\frac{1}{4}$ cor. sec. 20, T. 31 N., R. 1 W., at small concrete bridge, on N. end of SE. wing wall; chiseled square-----	622. 53
Magnolia, 2.4 mi. N. and 2.9 mi. W. from, near S $\frac{1}{4}$ cor. sec. 17, T. 31 N., R. 1 W., 8 ft. SE of S. corner of bridge, in root on W. side of 30-in. locust tree; copper nail and washer-----	556. 04
Magnolia, 2.9 mi. N. and 3.1 mi. W. from, 1.5 mi. S. and 2.2 mi. W. from McNabb, near center of sec. 17, T 31 N., R. 1 W., on NE. side of right-angle turn in rd. from N. to W., in root on W. side of 15-in. wild-cherry tree; copper nail and washer-----	657. 95
McNabb, 2.4 mi. W. thence 0.9 mi. S. from, in SW $\frac{1}{4}$ sec. 8, T. 31 N., R. 1 W., 26 ft. E. of junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 66 T 1924"-----	671. 035
McNabb, 2.4 mi. W. of, 0.25 mi. E. of NW. cor. sec. 8, T. 31 N., R. 1 W., 53 ft. S. and 54 ft. E. from junction of T-rd. S., in root on SW. side of 15-in. apple tree; copper nail and washer-----	675. 06
McNabb, 2.1 mi. W. thence 1.0 mi. N. from, near N $\frac{1}{4}$ cor. sec. 5, T. 31 N., R. 1 W., 28 ft. S. and 87 ft. W. from junction of T-rd. S., 2 ft. S. of fence, in root on E. side of 30-in. elm tree; copper nail and washer-----	696. 93

[Continued in Wenona quadrangle, line 5]

13. From point 0.4 mile north and 2.9 miles west from Magnolia along roads alternately west and south to junction of valley road at point 2 miles in air line east of Henry (by E. E. Harris in 1929)

Magnolia, 0.4 mi. N. and 3.4 mi. W. from, near SW. cor. sec. 29, T. 31 N., R. 1 W., on N. side of rd., on E. side of farm rd., on top near center of head wall of small culvert; chiseled square-----	678. 04
T. 31 N., R. 2 W., near SW. cor. sec. 25, 240 ft. E. of Brush College School, on N. side of rd., at concrete culvert, on top near center of parapet; chiseled square-----	629. 36
T. 31 N., R. 2 W., near center of sec. 35, 2.8 mi. in air line E. of Henry, at right-angle turn from S. to W. in rd., in line with fence along N. side of E.-W. rd., 2 ft. W. of fence along E. side of N.-S. rd., in root on W. side of 15-in. elm tree; copper nail and washer-----	652. 18

14. From road junction 6.3 miles along valley road northeast of Lacon northwest along State Highway 18 and southwest along streets to point 0.3 mile southwest of Chicago, Rock Island & Pacific Railway station at Henry (by S. H. Holm in 1929)

Henry, in SW. angle of intersection of School and Second Streets, at E. end of concrete curb along Second Street, 5 ft. N. of E.-W. sidewalk, 2.7 ft. W. of N.-S. sidewalk; chiseled square-----

483. 66

LA HARPE QUADRANGLE

[Latitude $40^{\circ}30'$ – $40^{\circ}45'$; longitude $90^{\circ}45'$ – $91^{\circ}00'$]

HANCOCK, HENDERSON, McDONOUGH, AND WARREN COUNTIES

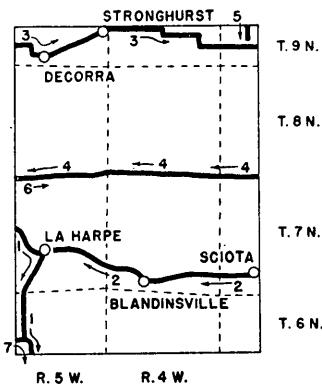


FIGURE 121.—Lines of leveling in La Harpe quadrangle.

- From point 2.1 miles northwest of La Harpe southeast and south-west along Toledo, Peoria & Western Railroad to north quarter corner sec. 5, T. 6 N., R. 5 W., thence along roads alternately south and east to point 1.7 miles north and 0.7 mile west from Fountain Green (by S. R. Archer in 1910)

[Continued from Lomax quadrangle, line 1]

La Harpe, 680 ft. W. of sta. at street crossing, at intersection of N. right-of-way line of R. R. and property line on W. side of street, at fence corner; standard iron post with bronze cap stamped "691" ⁷⁸

La Harpe, 2.4 mi. SW. of sta., near $N\frac{1}{4}$ cor. sec. 5, T. 6 N., R. 5 W., 75 ft. N. of tracks at crossing of N.-S. rd., 40 ft. SE. of crossroads, near NW. corner of triangular grass plot; standard iron post with bronze cap stamped "652"

La Harpe, 2.4 mi. SW. along R. R. thence 1.0 mi. along rd. S. from, near quarter corner between secs. 5 and 8, T. 6 N., R. 5 W., at center of crossroads, in root on E. side of cottonwood tree; nail

Feet
691. 060
651. 657
657. 54

[Continued in Colchester quadrangle, line 3]

- From Sciota west and northwest along Toledo, Peoria & Western Railroad to La Harpe (by R. G. Clinite in 1914)

[Continued from Good Hope quadrangle, line 2]

Sciota, 2.6 mi. W. of, 3.5 mi. E. of Blandinsville, in SE. angle of rd. crossing, 20 ft. S. of right-of-way line, 2 ft. W. of fence; standard iron post with bronze cap stamped "757" ⁷⁹

756. 116

⁷⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 33 1934," elevation 695.428 ft.

⁷⁹ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "V 33 1935," elevation 749.556 ft.

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Blandinsville, 700 ft. E. of sta., in SW. angle of street crossing, 5 ft. S. of right-of-way line, 2 ft. E. of fence; standard iron post with bronze cap stamped "733" ^{so}	Feet 732. 006
Blandinsville, 2.5 mi. NW. of, 3.7 mi. SE. of La Harpe, in NW. angle of crossing of Hancock-McDonough county-line rd., on N. side of right-of-way line, 2 ft. E. of fence; standard iron post with bronze cap stamped "705"	703. 720
3. From point near southwest corner sec. 29, T. 9 N., R. 5 W., along roads alternately east and south to Decorra, thence northeast along Atchison, Topeka & Santa Fe Railway to Stronghurst, thence along roads alternately east and south to point near northwest corner sec. 33, T. 9 N., R. 3 W. (by R. G. Clinite in 1914)	

[Continued from Lomax quadrangle, line 3]

Decorra, 0.6 mi. W. thence 0.6 mi. N. from, 0.4 mi. S. and 4.2 mi. E. from Carman, near NW. cor. sec. 28, T. 9 N., R. 5 W., in NE. angle of crossroads, at fence corner, in root of 14-in. walnut tree; copper nail and washer	648. 88
Decorra, at NE. corner of village, 0.2 mi. W. of R. R. crossing, on N. side of E.-W. rd., opposite junction of street S., 4 ft. S. of fence; standard iron post with bronze cap stamped "685"	684. 765
Decorra, 1.4 mi. NE. of sta., 2.1 mi. SW. of Stronghurst, 300 ft. SW. of crossing of E.-W. rd., on NW. side of track, at milepost 211; top of steel rail set vertically and projecting 12 in. above ground	693. 73
Stronghurst, 1.1 mi. SW. of, at milepost 210; top of steel rail set vertically and projecting 12 in. above ground	683. 72
Stronghurst, 0.25 mi. NE. of, in SE. angle of crossing of N.-S. rd., 100 ft. S. of track, 50 ft. E. of range line; standard iron post with bronze cap stamped "672"	671. 642
Stronghurst, 0.3 mi. NE. along R. R. thence 1.4 mi. along rd. E. from, 400 ft. W. of S $\frac{1}{4}$ cor. sec. 20, T. 9 N., R. 4 W., on N. side of rd., 2 ft. S. of hedge fence; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1914 696"	695. 412
Stronghurst, 0.3 mi. NE. along R. R. thence 3.0 mi. along rd. E. from, near SE. cor. sec. 21, T. 9 N., R. 4 W., 20 ft. N. and 35 ft. W. from crossroads; standard iron post with bronze cap stamped "721"	719. 842
Stronghurst, 5.3 mi. E. of, near W $\frac{1}{4}$ cor. sec. 25, T. 9 N., R. 4 W., on E. side of N.-S. rd., opposite junction of T-rd. W., 1 ft. N. of barn-yard gate, in root of 12-in. elm tree; copper nail and washer	752. 36
Stronghurst, 0.7 mi. S. and 6.3 mi. E. from, 6.5 mi. W. of Roseville, at N. cor. secs. 31 and 36, T. 9 N., Rs. 3 and 4 W., on Henderson-Warren county line, on S. side of rd., 3 ft. N. of fence; standard iron post with bronze cap stamped "741" (recovered in 1921)	739. 518
Roseville, 5.5 mi. W. of, at cor. secs. 29, 30, 31 and 32, T. 9 N., R. 3 W., at junction of T-rd. S., on stone marking section corner; highest point (reported broken)	749. 69

[Continued in Good Hope quadrangle, line 3]

^{so} In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "U 33 1934," elevation 731.521 ft.

4. From point 5 miles north of Sciota west along county-line road to point 1 mile north and 1 mile east from Disco (by R. G. Clinite in 1914)

[Continued from Good Hope quadrangle, line 4]

Sciota, 5.0 mi. N. of, near SW. cor. sec. 33, T. 8 N., R. 3 W., in NE. angle of crossroads, 1 ft. S. and 4 ft. E. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1914 801"-----	Feet 800. 357
T. 7 N., R. 4 W., near NE. cor. sec. 1, near corner of Henderson, McDonough, and Warren Counties, 25 ft. S. and 33 ft. W. from crossroads; standard iron post with bronze cap stamped "794"-----	793. 394
T. 7 N., R. 4 W., at N. cor. secs. 1 and 2, at crossroads, on stone marking section corner; highest point-----	784. 43
T. 8 N., R. 4 W., near S $\frac{1}{4}$ cor. sec. 34, 20 ft. N. and 30 ft. W. from crossroads; standard iron post with bronze cap stamped "729"-----	728. 017
T. 7 N., R. 4 W., near N $\frac{1}{4}$ cor. sec. 4, 50 ft. E. of junction of T-rd. N., on stone marking quarter corner; chiseled square-----	756. 82
T. 8 N., R. 4 W., at S. cor. secs. 32 and 33, at junction of T-rd. N., 90 ft. W. of junction of T-rd. S., on stone marking section corner; highest point-----	771. 92
T. 8 N., R. 4 W., near SW cor. sec. 32, 450 ft. N. of junction of N.-S. rd. and rd. SW., 300 ft. E. of angle in rd. from E. to N., 30 ft. N. and 2 ft. E. from junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 8 1914 771"-----	770. 420
Tps. 7 and 8 N., Rs. 4 and 5 W., near corner of, near corner of Hancock, Henderson and McDonough Counties, 25 ft. N. and 20 ft. E. from junction of T-rd. S.; standard iron post with bronze cap stamped "749"-----	748. 720
T. 8 N., R. 5 W., at S. cor. secs. 34 and 35, at junction of T-rd. N., on stone marking section corner; highest point-----	735. 08
T. 8 N., R. 5 W., near SE. cor. sec. 33, 4.0 mi. N. of La Harpe, 25 ft. N. and 5 ft. E. from junction of T-rd. S.; standard iron post with bronze cap stamped "714" (recovered in 1931)-----	712. 770

[Continued in Lomax quadrangle, line 2]

5. From point near south quarter corner sec. 20, T. 9 N., R. 3 W., along roads south 1.1 miles, thence west 1.5 miles to Henderson-Warren county line at point near SW. corner sec. 30 (by S. R. Archer in 1921)

[Continued from Oquawka quadrangle, line 1]

T. 9 N., R. 3 W., near center of sec. 29, 25 ft. S. and 50 ft. W. from junction of T-rd. W., in root on SE. side of 18-in. boxelder tree; copper nail and washer-----	742. 94
T. 9 N., R. 3 W., near SE. cor. sec. 30, at Jackson Corner School, at junction of T-rd. S., on N. side of E.-W. rd., in front of schoolhouse, on SE. corner of concrete platform; chiseled square-----	751. 28
T. 9 N., R. 3 W., near quarter corner between secs. 30 and 31, 75 ft. E. of crossroads, on top of W. end of N. head wall of culvert; chiseled square-----	745. 27
6. From point 1 mile north and 1 mile east from Disco east along Hancock-Henderson county-line road 2 miles to point 4 miles north of La Harpe (by S. R. Archer in 1931)	

[Connects with line 2 in Lomax quadrangle]

Disco, 1.0 mi. N. thence 1.2 mi. E. from, 0.2 mi. E. of SW. cor. sec. 32, T. 8 N., R. 5 W., on N. side of rd., just E. of farmhouse, in root on S. side of three-forked locust tree; copper nail and washer-----	693. 10
--	---------

678 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

T. 8 N., R. 5 W., 0.23 mi. E. of SW. cor. sec. 33, 0.2 mi. E. of offset crossroads, on N. side of rd., just E. of farmhouse, on top of W. end of N. head wall of concrete culvert; chiseled square-----	<i>Feet</i>
	699.59
T. 7 N., R. 5 W., 0.25 mi. W. of NE. cor. sec. 4, on top of W. end of S. head wall of concrete culvert; chiseled square-----	703.25

7. From point near west quarter corner sec. 17, T. 6 N., R. 5 W., along roads east and south to point 1.7 miles north and 0.7 mile west from Fountain Green (by S. R. Archer in 1931)

[Continued from Lomax quadrangle, line 8]

La Harpe, 2.3 mi. SW. along Toledo, Peoria & Western R. R. thence 2.5 mi. S. along rd. from, 2.5 mi. N. and 1.3 mi. W. from Fountain Green, 1.3 mi. S. and 1.7 mi. E. from Lacrosse, near center of sec. 17, T. 6 N., R. 5 W., 240 ft. NW. of junction of rd. NW., on NE. side of rd., in root on S. side of forked oak tree; copper nail and washer-----	633.45
Fountain Green, 2.1 mi. N. and 0.8 mi. W. from, 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 17, T. 6 N., R. 5 W., at bridge over La Harpe Creek, at S. end of E. truss, on head of southernmost of three rivets in expansion plate; chiseled cross-----	579.25

[Connects with line 3 in Colchester quadrangle]

LIBERTY QUADRANGLE

[Latitude $39^{\circ}45'$ - $44^{\circ}00'$; longitude $91^{\circ}00'$ - $91^{\circ}15'$]

ADAMS AND PIKE COUNTIES

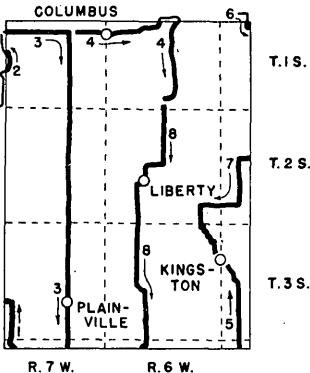


FIGURE 122.—Lines of leveling in Liberty quadrangle.

1. From point 1.1 miles southeast of Seehorn north and west along roads to point 2 miles south and 0.4 mile west from Payson (by W. A. Shumate in 1921)

[Continued from Barry quadrangle, line 3]

Seehorn, 0.7 mi. SE. of, 4.5 mi. S. of Payson, 0.4 mi. NW. of Pigeon Creek Church, in NE $\frac{1}{4}$ sec. 6, T. 4 S., R. 7 W., in NE. angle of junction of rd. N., on NW. abutment of bridge, on top course of concrete; chiseled square-----

Feet
503.20

Payson, 3.5 mi. S. of, near W $\frac{1}{4}$ cor. sec. 32, T. 3 S., R. 7 W., on E. side of N.-S. rd., opposite private entrance to farmhouse, 2 ft. W. of corner post of hedge fence, in root on E. side of 60-in. elm tree; copper nail and washer-----

663.70

Payson, 2.8 mi. S. of, 0.25 mi. N. of SE. cor. sec. 30, T. 3 S., R. 7 W., in SW. angle of junction of T.-rd. W., 1.5 ft. N. and 10 ft. W. from corner of hedge fence; standard iron post with bronze cap stamped "1921 685"-----

684.370

Payson, 2.1 mi. S. of, in NW. cor. sec. 29, T. 3 S., R. 7 W., in SE. angle of crossroads, in root on W. side of 48-in. maple tree; copper nail and bolt tap-----

711.44

[Continued in Quincy quadrangle, line 5]

2. Northeast and northwest along roads in secs. 18 and 19, T. 1 S., R. 7 W. (by W. A. Shumate in 1921)

[A jog from Quincy quadrangle, line 5]

T. 1 S., R. 7 W., in SE $\frac{1}{4}$ sec. 19, 0.25 mi. N. of rd. junction; in NE. abutment of bridge over Mill Creek; aluminum tablet stamped "1921 626"-----

625.900

T. 1 S., R. 7 W., near N $\frac{1}{4}$ cor. sec. 19, in SE. angle of junction of T.-rd. S., in root on N. side of 24-in. black-oak tree; copper nail and washer-----

717.90

[Continued in Quincy quadrangle, line 5]

3. From point 1 mile south and 0.7 mile east from Fowler east along road to crossroads 2 miles west of Columbus, thence south to point 2.5 miles south of Plainville (by E. O. Brooks in 1921)

[Continued from Quincy quadrangle, line 4]

	Feet
Fowler, 1.0 mi. S. and 1.0 mi. E. from, 230 ft. W. of NE. cor. sec. 18, T. 1 S., R. 7 W., on W. end of S. head wall of concrete culvert; chiseled square	684. 93
Fowler, 1.0 mi. S. and 2.0 mi. E. from, near NE. cor. sec. 17, T. 1 S., R. 7 W., near dwelling of Henning Brothers, 2 ft. N. and 5 ft. W. from gate, on S. side of rd.; top of cap on iron gas pipe	735. 62
Fowler, 1.0 mi. S. and 3.0 mi. E. from, 3.0 mi. W. of Columbus, near SE. cor. sec. 9, T. 1 S., R. 7 W., in NW. angle of crossroads, 3 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "41 EB 1921 706"	705. 860
Reference mark, 47 ft. N. and 7 ft. E. from tablet, on S. end of W. head wall of concrete culvert; chiseled square	706. 86
Columbus, 2.0 mi. W. of, near NE. cor. sec. 15, T. 1 S., R. 7 W., 400 ft. W. of crossroads, on E. end of S. head wall of concrete culvert; chiseled square	721. 50
Columbus, 2.0 mi. W. thence 0.7 mi. S. from, 0.2 mi. S. of quarter corner between secs. 14 and 15, T. 1 S., R. 7 W., 100 ft. S. of crossroads, on N. end of W. head wall of concrete culvert; chiseled square	733. 16
Columbus, 2.0 mi. W. thence 2.0 mi. S. from, 3.0 mi. N. of Pleasant Grove Church, near SE. cor. sec. 22, T. 1 S., R. 7 W., in NW. angle of crossroads, 8 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "42 EB 1921 746"	745. 917
Reference mark, 2.5 ft. N. of iron post, set 6 in. underground; top of cap on iron gas pipe	744. 44
Pleasant Grove Church, 2.0 mi. N. of, at Prairie School, near SW. cor. sec. 26, T. 1 S., R. 7 W., 75 ft. N.E. of crossroads, in SW. corner of schoolyard, in root of 18-in. maple tree; copper nail and washer	756. 72
Pleasant Grove Church, 1.0 mi. N. of, near NW. cor. sec. 2, T 2 S., R. 7 W., in SE. corner of offset crossroads, 25 ft. S. and 1 ft. W. from fence corner; top of cap on iron gas pipe	767. 18
Pleasant Grove Church, near NE. cor. sec. 10, T. 2 S., R. 7 W., on W. side of rd., opposite junction of rd. SE., in SE. corner of churchyard, 12 ft. N. of fence corner; standard iron post with bronze cap stamped "43 EB 1921 740" ⁸¹	740. 518
Reference mark, 40 ft. E. of iron post, in SE. angle of rd. junction, on W. end of S. head wall of concrete culvert; chiseled square	742. 11
Pleasant Grove Church, 1.0 mi. S. of, near SE. cor. sec. 10, T. 2 S., R. 7 W., 130 ft. N. of junction of T-rd. W., on N. end of W. head wall of concrete culvert; chiseled square	719. 41
Pleasant Grove Church, 2.0 mi. S. of, near NE. cor. sec. 22, T. 2 S., R. 7 W., in SW. angle of crossroads, 10 ft. N. and 35 ft. W. from fence corner, in root of 18-in. maple tree; copper nail and washer	714. 17
Pleasant Grove Church, 3.0 mi. S. of, 0.7 mi. N. and 0.7 mi. E. from Adams, near SE. cor. sec. 22, T. 2 S., R. 7 W., at junction of T-rd. E., 5 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "44 EB 1921 686"	686. 410

⁸¹ In 1932 this bench mark was moved 17 ft. west of this location and reset at an elevation 0.667 ft. higher than that originally determined. The figures given represent the new elevation.

	Feet
Reference mark, 16 ft. W. of iron post, in root of 6-in. elm tree; copper nail and washer-----	684. 78
Adams, 0.8 mi. SE. of, 5.3 mi. N. of Plainville, near SW. cor. sec. 26, T. 2 S., R. 7 W., 110 ft. N. of crossroads, at SE. corner of bridge over drain, on large stone in head wall; chiseled square-----	739. 39
Plainville, 2.8 mi. N. of, 0.23 mi. S. of NE. cor. sec. 10, T. 3 S., R. 7 W., in NW. angle of junction of T-rd. W., 3 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "45 EB 1921 701"-----	700. 722
Reference mark, 2.5 ft. N. of iron post, set 6 in. underground; top of cap on iron gas pipe-----	699. 83
Plainville, 2.0 mi. N. of, near NW. cor. sec. 14, T. 3 S., R. 7 W., in SE. angle of crossroads, on W. end of S. head wall of concrete culvert; chiseled square-----	685. 14
Plainville, 1.0 mi. N. of, near SW. cor. sec. 14, T. 3 S., R. 7 W., in SE. angle of crossroads, 6 ft. S. and 50 ft. E. from fence corner, in root of 30-in. elm tree; copper nail and washer-----	663. 24
Plainville, near center of cross streets, at town well, in E. side of concrete platform; standard tablet stamped "46 EB 1921 693"-----	693. 350
Reference mark, 1.5 ft. S. of tablet, at town well, on SE. corner of concrete platform; chiseled square-----	693. 33
Plainville, 1.0 mi. S. of, near SW. cor. sec. 26, T. 3 S., R. 7 W., 150 ft. N. of crossroads, on S. end of E. head wall of concrete culvert; chiseled square-----	680. 22
Plainville, 2.0 mi. S. of, near NW. cor. sec. 2, T. 4 S., R. 7 W., at Adams-Pike county line, in SE. angle of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	669. 03

[Continued in Barry quadrangle, line 4]

4. From crossroads 2 miles west of Columbus east and northeast along roads to northeast quarter sec. 10, T. 1 S., R. 6 W., thence south to road junction 4 miles north and 1 mile east from Liberty (by W. A. Shumate in 1921)	
Columbus, 1.0 mi. W. of crossroads, near NW. cor. sec. 13, T. 1 S., R. 7 W., 160 ft. E. of crossroads, on S. side of E.-W. rd., in center of concrete head wall of culvert; chiseled square-----	714. 54
Columbus, at W. limits of, 380 ft. S. and 875 ft. W. from NE. cor. sec. 13, T. 1 S., R. 7 W., on W. side at S. end of short jog in N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1914 724"-----	724. 477
Columbus, in N. part of, in NE. angle of crossroads, 2 ft. SE. of large elm tree, in concrete post; aluminum tablet stamped "1921 722"-----	722. 513
Reference mark, in SW. angle of crossroads, on W. edge of concrete sidewalk; chiseled square-----	721. 94
Columbus, 1.1 mi. E. of crossroads, near SE. cor. sec. 7, T. 1 S., R. 6 W., on S. side of E.-W. rd., 500 ft. W. of junction of private rd. N., in root on N. side of 60-in. elm tree; copper nail and washer-----	676. 12
Columbus, 2.2 mi. NE. of, 0.1 mi. S. and 0.15 mi. W. from E $\frac{1}{4}$ cor. sec. 8, T. 1 S., R. 6 W., on N. side of rd., at W. edge of woods, in root on N. side of 7-in. black-oak tree; copper nail and washer-----	700. 38
Columbus, 2.6 mi. NE. of, 2.9 mi. S. and 1.7 mi. W. from Camp Point, near center of SW $\frac{1}{4}$ sec. 9, T. 1 S., R. 6 W., 40 ft. E. of junction of T-rd. N., on N. side of E.-W. rd., in root on S. side of 48-in. oak tree; copper nail and washer-----	639. 03

[Jogs into Camp Point quadrangle, line 4]

	Feet
Camp Point, 3.1 mi. S. and 0.6 mi. W. from, near center of SW $\frac{1}{4}$ sec. 10, T. 1 S., R. 6 W., on N. side of rd., on NW. concrete abutment of bridge over Figley Branch; chiseled square-----	647.59
T. 1 S., R. 6 W., in SW $\frac{1}{4}$ sec. 15, in NW. angle of crossroads, 2 ft. NE. of fence post, in concrete post; standard tablet stamped "1921 696"-----	695.482
Reference mark, in SW. angle of crossroads, in root on N. side of 18-in. maple tree; 10-penny nail and washer-----	694.62
T. 1 S., R. 6 W., 0.25 mi. N. of center of sec. 27, at junction of rd. SW., on NW. concrete retaining wall of bridge over McKee Creek; chiseled square-----	618.59
T. 1 S., R. 6 W., 0.1 mi. E. of quarter corner between secs. 27 and 34, 120 ft. E. of junction of rd. E., on SE. concrete retaining wall of bridge over Lierle Creek; aluminum tablet stamped "1921 624"-----	624.056
Liberty, 4.0 mi. N. and 1.0 mi. E. from, 0.1 mi. S. of E $\frac{1}{4}$ cor. sec. 33, T. 1 S., R. 6 W., 20 ft. S. of junction of T-rd. W., on W. side of rd., in root of 4-in. elm tree; copper nail and washer (recovered in 1922)-----	643.90

5. From point near quarter corner between secs. 5 and 6, T. 4 S.,
R. 5 W., north and northwest along roads to Kingston (by E. O.
Brooks in 1921)

[Continued from Barry quadrangle, line 5]

Kingston, 1.2 mi. SE. thence 3.0 mi. S. from, 5.0 mi. NE. of Barry, near SW. cor. sec. 32, T. 3 S., R. 5 W., 160 ft. N. of Adams-Pike county line, on E. side of rd., 10 ft. W. of fence, on limestone boulder; chiseled square-----	661.75
Kingston, 1.2 mi. SE. thence 2.0 mi. S. from, near SW. cor. sec. 29, T. 3 S., R. 5 W., in NE. angle of crossroads, 12 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "EB 49 1921 710"-----	710.036
Reference mark, 2 ft. S. of tablet, set 6 in. underground; top of cap on iron gas pipe-----	708.78
Kingston, 1.2 mi. SE. thence 1.0 mi. S. from, near SE. cor. sec. 19, T. 3 S., R. 5 W., in NW. angle of junction of T-rd. W., 12.5 ft. N. and 1 ft. E. from fence corner; top of cap on iron gas pipe-----	773.48
Kingston, 1.2 mi. SE. of, 0.5 mi. N. and 1.0 mi. W. from Beverly, near NW. cor. sec. 20, T. 3 S., R. 5 W., in SE. angle of junction of T-rd. S., 20 ft. W. of fence corner, on N. end of E. head wall of concrete culvert; chiseled square-----	797.97
Reference mark, 2 ft. N. of tablet, on NE. corner of concrete plat- form; chiseled square-----	814.86
Kingston (formerly Fair Weather post office), at E. end of Union Chapel, in concrete platform, 2 ft. S. of NE. corner; standard tab- let stamped "EB 50 1921 815" (recovered in 1922)-----	814.876

6. South and east along roads in sec. 8, T. 1 S., R. 5 W. (by V. S.
Seward in 1922)

[Continued from Camp Point quadrangle, line 6]

Clayton, 2.5 mi. S. and 2.2 mi. W. from, near center of sec. 8, T. 1 S., R. 5 W., 30 ft. N. and 30 ft. E. from junction of T-rd. N., 150 ft. W. of turn in rd. from W. to S., in root of 30-in. cherry tree; copper nail and washer-----	734.46
---	--------

[Continued in Mount Sterling quadrangle, line 2]

7. From point near center of sec. 17, T. 2 S., R. 5 W., alternately west and south along roads to road junction at north corner secs. 35 and 36, T. 2 S., R. 6 W., thence southeast to Kingston (by V. S. Seward in 1922)

{Continued from Mount Sterling quadrangle, line 2}

	Feet
T. 2 S., R. 5 W., near $W\frac{1}{4}$ cor. sec. 17, 20 ft. N. and 40 ft. E. from crossroads, in root of 18-in. elm tree; copper nail and washer-----	653. 72
T. 2 S., R. 5 W., near SW. cor. sec. 20, 30 ft. N. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 32 S 1922 668" ⁸² -----	668. 977
Reference mark, 25 ft. S. and 80 ft. E. from iron post, on concrete culvert; chiseled square-----	665. 99
T. 2 S., R. 5 W., near SW. cor. sec. 29, 75 ft. N. and 15 ft. E. from junction of T-rd. N., in root of 18-in. elm tree; copper nail and washer-----	672. 24
T. 2 S., R. 5 W., near SW. cor. sec. 30, 140 ft. E. of creek, on N. side of rd., in root of 24-in. hickory tree; copper nail and washer-----	689. 78
Kingston, 3.5 mi. NW. of, near NE. cor. sec. 35, T. 2 S., R. 6 W., 500 ft. S. and 30 ft. W. from junction of T-rd. S., in root of 12-in. walnut tree; copper nail and washer-----	776. 28
8. From road junction 4 miles north and 1 mile east from Liberty generally south along roads by way of Liberty to point near quarter corner between secs. 4 and 5, T. 4 S., R. 6 W. (by V. S. Seward in 1922)	
Liberty, 2.7 mi. N. and 1.0 mi. E. from, near SW. cor. sec. 3, T. 2 S., R. 6 W., 15 ft. N. and 6 ft. E. from junction of T-rd. E., in root of 36-in. oak tree; copper nail and washer-----	713. 40
Liberty, 2.2 mi. N. and 1.0 mi. E. from, near $W\frac{1}{4}$ cor. sec. 10, T. 2 S., R. 6 W., 30 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "S 1922"-----	727. 938
Liberty, 0.7 mi. N. and 1.0 mi. E. from, near SW. cor. sec. 15, T. 2 S., R. 6 W., 40 ft. N. and 30 ft. E. from junction of T-rd. N., in root of 24-in. maple tree; copper nail and washer-----	740. 67
Liberty, 0.7 mi. N. of public square, near NE. cor. sec. 21, T. 2 S., R. 6 W., 4 ft. S. and 100 ft. E. from junction of T-rd. E., on S. side of rd., 0.5 ft. E. of W. end of abutment of culvert; chiseled square-----	740. 52
Liberty, in front concrete doorstep of Farmers Bank; standard tablet stamped "S 1922 757"-----	757. 057
Liberty, 1.3 mi. S. and 0.5 mi. W. from, 3.1 mi. N. of Richfield, near quarter corner between secs. 29 and 32, T. 2 S., R. 6 W., on E. side of rd., at junction of T-rd. W., on culvert; chiseled square-----	743. 45
Richfield, 2.0 mi. N. of, near $N\frac{1}{4}$ cor. sec. 5, T. 3 S., R. 6 W., 40 ft. S. and 40 ft. E. from E. end of short jog in rd. at township line, 50 ft. W. of house, in root of 24-in. pine tree; copper nail and washer-----	738. 42
Richfield, 1.1 mi. N. of, near $S\frac{1}{4}$ cor. sec. 5, T. 3 S., R. 6 W., at junction of private rd. E., 5 ft. W. of S. door of schoolhouse, on rock; chiseled square-----	741. 41
Richfield, in front of Christian Church, in concrete step; standard tablet stamped "S 1922"-----	718. 577

⁸² In 1936 this bench mark was moved 44 ft. north of this location and reset at an elevation 0.850 ft. higher than that originally determined. The figures given represent the new elevation.

684 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Richfield, 1.0 mi. S. of, near N $\frac{1}{4}$ cor. sec. 20, T. 3 S., R. 6 W., 40 ft. S. and 30 ft. W. from junction of T-rd. W., in root of 12-in. elm tree; copper nail and washer-----	642.68
Richfield, 3.0 mi. S. and 0.5 mi. E. from, near SW. cor. sec. 28, T. 3 S., R. 6 W., 80 ft. N. and 30 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "S 1922"-----	696.705
Richfield, 4.0 mi. S. and 0.5 mi. E. from, 5.7 mi. NE. of Kinderhook, near NE. cor. sec. 5, T. 4 S., R. 6 W., at Adams-Pike county line, 30 ft. S. and 20 ft. W. from W. end of jog in N.-S. rd. at junction of rd. E., in root of 24-in. elm tree; copper nail and washer-----	708.41

[Continued in Barry quadrangle, line 6]

LINCOLN QUADRANGLE

[Latitude $40^{\circ}00'$ – $40^{\circ}15'$; longitude $89^{\circ}15'$ – $89^{\circ}30'$]

LOGAN COUNTY

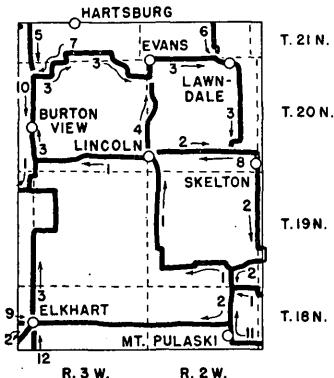


FIGURE 123.—Lines of leveling in Lincoln quadrangle.

1. From point 2.1 miles north and 1.7 miles east from Mount Pulaski along roads alternately west and north to Lincoln, thence west and south to point 0.3 mile west of north quarter corner sec. 12, T. 19 N., R. 4 W. (by P. E. Fletcher in 1908)

[Continued from Kenney quadrangle, line 1]

Mount Pulaski, 2.5 mi. N. of, near S $\frac{1}{4}$ cor. sec. 35, T. 19 N., R. 2 W., in NW. angle of crossroads, in concrete post; aluminum tablet (recovered in 1936)

Feet
612. 848

Mount Pulaski, 3.5 mi. N. and 3.8 mi. W. from, 6.5 mi. S. of Logan County courthouse at Lincoln, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 30, T. 19 N., R. 2 W., NW. of junction of T-rd. E., in concrete post; aluminum tablet

584. 443

Lincoln, 3.6 mi. S. of, 21 ft. SE. of center of sec. 18, T. 19 N., R. 2 W., in concrete post; aluminum tablet

590. 792

Lincoln, at courthouse square, 2 ft. N. of post at SW. entrance of, in concrete post; aluminum tablet (recovered by U. S. C. & G. S. in 1934)

590. 284

Lincoln, 3.6 mi. W. of, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 33, T. 20 N., R. 3 W., in SW. angle of junction of T-rd. S., in concrete post; aluminum tablet

614. 873

T. 19 N., R. 4 W., 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 12, about 30 ft. SW. of junction of private T-rd. S., in concrete post; aluminum tablet (recovered in 1909)

595. 113

[Continued in Mason City quadrangle, line 1]

2. From Lincoln along roads east to point 0.5 mile north of Skelton, thence generally south to road junction 0.5 mile north of Mount Pulaski, thence west to Elkhart, thence southwest along Chicago & Alton Railroad 1.4 miles (by E. M. Bandli in 1909; leveled twice from Elkhart)

Lincoln, 2.9 mi. E. of, 0.5 mi. N. thence 3.0 mi. W. from Skelton, near SW. cor. sec. 27, T. 20 N., R. 2 W., 36 ft. NE. of crossroads, 7 ft. N. of telephone pole, 6 ft. W. of hedge fence; standard iron post with bronze cap stamped "592" ⁸³	Feet 592.040
Skelton, 50 ft. NW. of intersection of Illinois Central R. R., 36 ft. N. of track, 2 ft. S. and 2 ft. W. from fence corner; standard iron post with bronze cap (recovered by U. S. C. & G. S. in 1934)	610.996
Skelton, 3.5 mi. S. of, 5.5 mi. N. and 1.5 mi. E. from Mount Pulaski, near NW. cor. sec. 19, T. 19 N., R. 1 W., in SE. angle of offset crossroads, 2 ft. E. of fence corner; standard iron post with bronze cap stamped "635"	635.410
Mount Pulaski, 0.5 mi. N. thence 1.5 mi. W. from, near SW. cor. sec. 10, T. 18 N., R. 2 W., 40 ft. NE. of crossroads, 21 ft. E. of fence corner, 2 ft. from fence; standard iron post with bronze cap stamped "614" ⁸⁴	613.990
Mount Pulaski, 0.5 mi. N. thence 4.5 mi. W. from, 6.2 mi. E. of Elkhart, near SE. cor. sec. 12, T. 18 N., R. 3 W., 10 ft. N. of rd., 4 ft. from fence; standard iron post with bronze cap stamped "601"	600.875
Elkhart, 3.0 mi. E. of, about 0.15 mi. W. of NE. cor. sec. 16, T. 18 N., R. 3 W., in SE. angle of junction of private rd. S.; standard iron post with bronze cap stamped "575"	574.715
Elkhart, 13 ft. E. of Chicago & Alton R. R. tangent, 15 ft. NE. of rd., 3 ft. E. of R. R. signpost; standard iron post with bronze cap stamped "592" (recovered in 1940)	592.127
[Connects with line 1 in Springfield quadrangle]	
3. From Elkhart along roads generally north to crossroads 2.7 miles north of Burton View, thence east to Lawndale, thence south to point 4 miles east of Lincoln (by E. M. Bandli in 1909; leveled twice from point 0.3 mile south of Burton View to Lawndale)	
Elkhart, 3.0 mi. N. of, near NE. cor. sec. 36, T. 19 N., R. 4 W., 40 ft. SW. of junction of T-rd. W., 2 ft. from telephone pole; standard iron post with bronze cap stamped "588"	587.708
T. 19 N., R. 3 W., near SE. cor. sec. 18, 40 ft. NW. of junction of T-rd. N., 2 ft. S. of fence; standard iron post with bronze cap stamped "570"	569.941
T. 20 N., R. 3 W., near SW. cor. sec. 19, 0.3 mi. S. of Burton View, 14 ft. N. and 20 ft. E. from crossroads, N. of telephone pole, 2 ft. E. of fence; standard iron post with bronze cap stamped "570" (recovered in 1936) ⁸⁵	570.170
Burton View, 2.7 mi. N. of, 2.5 mi. W. thence 2.8 mi. S. from Hartsburg, near NW. cor. sec. 7, T. 20 N., R. 3 W., 12 ft. S. of E-W rd., in line with rd. N., 3 ft. from fence; standard iron post with bronze cap stamped "551" (recovered in 1936)	551.442

⁸³ In 1930 this bench mark was moved 10 ft. north and 5 ft. east from this position and reset at an elevation approximately 0.100 ft. higher than that originally determined. The figures given represent the new elevation.

⁸⁴ In 1936 this bench mark was reported destroyed.

⁸⁵ In 1936 this bench mark was found to be leaning. The elevation as redetermined is 570.082 ft.

	Feet
Hartsburg, 0.5 mi. E. thence 1.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 33, T. 21 N., R. 3 W., in NE. corner of yard of Musick School, 30 ft. SW. of crossroads; standard iron post with bronze cap stamped "577" (recovered in 1930)-----	577. 263.
Hartsburg, 3.3 mi. in air line SE. of, 0.3 mi. S. and 1.6 mi. W. from Evans, near center of NE $\frac{1}{4}$ sec. 2, T. 20 N., R. 3 W., 27 ft. SE. of junction of rd. N., 9 ft. from fence corner, 2 ft. from W. fence; standard iron post with bronze cap stamped "577"-----	576. 770.
Evans, 1.8 mi. E. of, 2.6 mi. W. of Lawndale, 0.15 mi. W. of S $\frac{1}{4}$ cor. sec. 33, T. 21 N., R. 2 W., 20 ft. N. of E-W. rd. at junction of rd. S., 4 ft. E. of telephone pole, 3 ft. S. of hedge; standard iron post with bronze cap stamped "580"-----	579. 290.
Lawndale, 90 ft. NE. of intersection of Chicago & Alton R. R. and first street S. of sta., 40 ft. E. of track, 3 ft. W. of telephone pole; standard iron post with bronze cap stamped "596" (recovered in 1930) ^{ss} -----	595. 982.
Lawndale, 0.5 mi. E. thence 2.7 mi. S. from, 4.8 mi. E. thence 2.2 mi. N. from Lincoln, near SE. cor. sec. 14, T. 20 N., R. 2 W., 36 ft. NE. of crossroads, 15 ft. N. of hedge corner, 4 ft. S. of telephone pole; standard iron post with bronze cap stamped "616"-----	615. 363.
4. From Lincoln along road generally north to crossroads 1 mile south of Evans (by E. M. Bandli in 1909)	
Lincoln, at corporate limits, at NW. cor. sec. 30, T. 20 N., R. 2 W., in middle of crossroads; top of stone marking section corner-----	587. 68.
5. From point 2.5 miles west of Hartsburg south along range-line road to point 2.7 miles north of Burton View (by S. R. Archer in 1930)	
[Connects with line 2 in Minier quadrangle]	
Hartsburg, 2.5 mi. W. of, near NE. cor. sec. 25, T. 21 N., R. 4 W., 75 ft. S. of crossroads, on W. side of rd. S., 45 ft. S. of fence corner, in root on SE. side of twin 24-in. maple tree; copper nail and washer-----	569. 93.
Hartsburg, 2.5 mi. W. thence 1.1 mi. S. from, 4.3 mi. N. of Burton View, 0.14 mi. S. of NW. cor. sec. 31, T. 21 N., R. 3 W., 720 ft. S. of crossroads, 90 ft. N. of driveway to farmhouse, 30 ft. E. of rd., in root on NW. side of 24-in. boxelder tree; copper nail and washer-----	568. 98.
6. From point 2.9 miles northwest of Lawndale south and east along roads to Lawndale (by S. R. Archer in 1930)	
[Continued from Minier quadrangle, line 3]	
Lawndale, 2.5 mi. NW. of, near quarter corner between secs. 26 and 27, T. 21 N., R. 2 W., in SE. angle of offset crossroads, inside fence, in root of 10-in tree, northernmost of W. row of maple trees; copper nail and washer-----	621. 13.
Lawndale, 2.0 mi. NW. of, near SW. cor. sec. 26, T. 21 N., R. 2 W., N. of jog E. in rd., 120 ft. E. of rd. N., 25 ft. E. of junction of rd. S., 10 ft. S. of E-W. fence line, in root on NW. side of 8-in. tree, westernmost of row of six pine trees; copper nail and washer-----	602. 50.

^{ss} In 1930 this bench mark was reported 2 ft. below level of driveway to station. Six-in. pipe is centered over mark.

	Feet
Lawndale, 1.2 mi. NW. of, in SW $\frac{1}{4}$ sec. 35, T. 21 N., R. 2 W., at S. stone abutment of highway bridge over Kickapoo Creek, on top of E. end of bridge seat; chiseled square-----	590. 90
Lawndale, 0.9 mi. NW. of, near NE. cor. sec. 3, T. 20 N., R. 2 W., 420 ft. S. and 110 ft. E. from junction of rd. W., 110 ft. E. of angle in rd., on N. side of rd., in pasture, 9 ft. N. of fence, in root on S. side of 36-in. oak tree; copper nail and washer-----	597. 18
Lawndale, 460 ft. W. of Chicago & Alton R. R. crossing main street, on N. side of street, on top of E. end of N. concrete head wall of highway bridge; chiseled square-----	593. 66
Lawndale, at Chicago & Alton R. R. sta., on E. side of track, 150 ft. NE. of street intersection, on top of N. end of W. head wall of concrete culvert under State highway; chiseled square-----	596. 80
7. From crossroads 1.5 miles south and 0.5 mile east from Hartsburg along roads alternately west and south to crossroads 2.7 miles north of Burton View (by M. W. Clark in 1930)	
Hartsburg, 1.5 mi. S. and 0.3 mi. W. from, 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 33, T. 21 N., R. 3 W., 0.2 mi. E. of junction of N.-S. rd., on SE. wing wall of concrete bridge; chiseled square-----	566. 66
Hartsburg, 2.0 mi. S. and 1.3 mi. W. from, 0.17 mi. E. of SW. cor. sec. 32, T. 21 N., R. 3 W., 20 ft. N. and 410 ft. W. from junction of T-rd. S., 18 ft. W. of fence corner, in root on SE. side of hedge tree; copper nail and washer-----	567. 18
Hartsburg, 3.0 mi. S. and 1.4 mi. W. from, 2.6 mi. N. and 1.1 mi. E. from Burton View, in NW $\frac{1}{4}$ sec. 7, T. 20 N., R. 3 W., 0.18 mi. S. of junction of rd. W., at N. end of bridge over Sugar Creek, on E. end of bridge seat; chiseled square-----	551. 22
8. From point 0.5 mile south and 0.2 mile east from Skelton west to range-line road, thence north 1 mile, thence west to Lincoln (by M. W. Clark in 1930)	

[Continued from Kenney quadrangle, line 5]

Skelton, 0.5 mi. S. of, near SE. cor. sec. 36, T. 20 N., R. 2 W., 30 ft. N. and 15 ft. W. from crossroads, on top of head wall of concrete culvert; chiseled square-----	619. 10
Skelton, 0.5 mi. N. of, near SW. cor. sec. 30, T. 20 N., R. 1 W., in SE. corner of yard of Zollars School, in root on W. side of 30-in. maple tree; copper nail and washer-----	608. 93
Skelton, 0.5 mi. N. thence 0.5 mi. W. from, near N $\frac{1}{4}$ cor. sec. 36, T. 20 N., R. 2 W., on SE. wing wall of concrete bridge; chiseled square-----	589. 52
Skelton, 0.5 mi. N. thence 1.4 mi. W. from, 4.6 mi. E. of Lincoln, near S $\frac{1}{4}$ cor. sec. 26, T. 20 N., R. 2 W., 525 ft. E. of junction of T-rd. N., on NW. wing wall of concrete bridge; chiseled square-----	589. 76
Lincoln, 4.0 mi. E. of, near NW. cor. sec. 35, T. 20 N., R. 2 W., 70 ft. S. and 55 ft. E. from crossroads, inside fence, in root on NW. side of 18-in. maple tree; copper nail and washer ⁸⁷ -----	607. 46
Lincoln, 2.9 mi. E. of, about 500 ft. W. of SE. cor. sec. 28, T. 20 N., R. 2 W., 500 ft. W. of standard iron post, on NE. wing wall of concrete highway bridge; chiseled square ⁸⁸ -----	584. 84

⁸⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 88 1934," elevation 596.511 ft.

⁸⁸ Established as a reference mark to iron post stamped "592," described in line 2.

	Feet
Lincoln, 1.9 mi. E. of, near NE. cor. sec. 32, T. 20 N., R. 2 W., 350 ft. W. of junction of T-rd. N., on SW. wing wall of concrete bridge; chiseled square	575.18
Lincoln, near E. corporate limits, near NW. cor. sec. 32, T. 20 N., R. 2 W., 325 ft. E. of Y-rd. junction, on S. side of highway, NE. of Cullett and Sons greenhouse, on top of concrete culvert; chiseled square	590.32
Lincoln, at E. city limits sign, 15 ft. N. and 12 ft. E. from junction of T-rd. S., N. of Cullett & Sons greenhouse, on shoulder of concrete culvert; chiseled square	593.41
Lincoln, at SE. corner of intersection of Keokuk and McLean Streets, 3 ft. N. of fire hydrant, on top of curb; chiseled square	588.41
Lincoln, at NE. corner of Latham Park, at 800 Delavan Street, on top of SE. side of concrete foundation of lamppost; chiseled square	586.55
Lincoln, on W. side of Chamber of Commerce Building, on concrete sidewalk; chiseled square	588.74
9. From point 0.8 mile west of Elkhart east along road to Elkhart (by S. R. Archer in 1932)	
[Continued from Mason City quadrangle, line 9]	
Elkhart, 290 ft. W. of intersection of Chicago & Alton R. R., 100 ft. W. of State highway, on top of N. wing wall of E. stone abutment of highway bridge; chiseled square	585.99
10. From road junction 2.7 miles north of Burton View south along range-line road 3 miles (by W. C. Elledge in 1936)	
Burton View, 2.2 mi. N. of, 500 ft. W. of E $\frac{1}{4}$ cor. sec. 12, T. 20 N., R. 4 W., at steel bridge over Sugar Creek, on E. end of N. stone abutment; chiseled square	547.49
Burton View, 1.0 mi. N. of, about 0.2 mi. N. of SW. cor. sec. 18, T. 20 N., R. $\frac{3}{4}$ W., on E. side of rd., in NW. corner of yard, in root on SW. side of 24-in. walnut tree; copper nail and washer	563.88
U. S. C. & G. S. standard disk stamped "F 38 1934"	571.068
11. From point 0.5 mile south and 1.8 miles east from Mount Pulaski along roads west and north to crossroads 2.5 miles north of Mount Pulaski (by S. R. Archer in 1936)	
[Continued from Kenney quadrangle, line 9]	
Mount Pulaski, 0.5 mi. S. thence 1.6 mi. E. from, near NW. cor. sec. 19, T. 18 N., R. 1 W., 30 ft. S. and 25 ft. E. from junction of T-rd. N., 20 ft. E. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "625"	625.000
Reference mark, in NW. corner of rd. junction, on N. end of W. head wall of concrete culvert; chiseled square	627.85
Mount Pulaski, 0.5 mi. S. and 1.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 24, T. 18 N., R. 2 W., 45 ft. S. of junction of T-rd. S., on top of N. end of W. head wall of concrete culvert; chiseled square	628.53
Mount Pulaski, 0.25 mi. W. of E. corporate limits, in NE. corner of crossroads, on N. end of E. head wall of concrete culvert; chiseled square	629.62
Mount Pulaski, in NE. part of, in SW. corner of junction of T-st. W., 340 ft. S. of curve NW. in State highway, on top of W. end of S. head wall of concrete culvert; chiseled square	635.81

690 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Mount Pulaski, near center of, 50 ft. N. and 35 ft. W. from SE. corner of old courthouse grounds, between southernmost legs of city water tower, 8 ft. NE. of leg with ladder attached, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "702"-----	<i>Feet</i> 702.310
Mount Pulaski, at City Hall and Fire Station, opposite E. side of old courthouse grounds, at small entrance on S. side of main arched entrance, in top of S. end of stone doorsill; standard tablet stamped "695"-----	695.156
Mount Pulaski, 0.5 mi. N. of City Hall, in NW. corner of junction of T-rd. W., on top of W. end of N. head wall of concrete culvert; chiseled square-----	635.31
Mount Pulaski, 1.4 mi. N. of, 0.15 mi. S. of N $\frac{1}{4}$ cor. sec. 11, T. 18 N., R. 2 W., 370 ft. S. of junction of T-rd. W., on top of W. head wall of concrete culvert, 8 ft. S. of N. end; chiseled square-----	608.41
12. From point 1.4 miles south of Elkhart north along range-line road to Elkhart (by W. C. Elledge in 1940)	
[Continued from Cornland quadrangle, line 4]	
Elkhart, 0.5 mi. S. of, near quarter corner between secs. 13 and 18, T. 18 N., Rs. 3 and 4 W., near junction of private rd. E. to house on top of hill, on S. head wall of concrete culvert; chiseled square-----	597.07

LOMAX QUADRANGLE

[Latitude $40^{\circ}30' - 40^{\circ}45'$; longitude $91^{\circ}00' - 91^{\circ}15'$]

HANCOCK AND HENDERSON COUNTIES

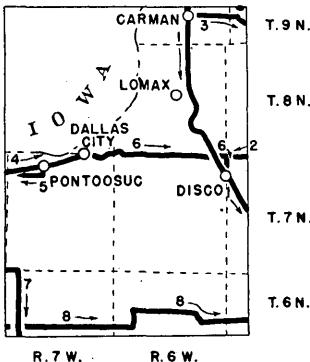


FIGURE 124.—Lines of leveling in Lomax quadrangle.

1. From point 0.6 mile north of Carman south along Chicago, Burlington & Quincy Railroad to Iowa Junction, thence southeast along Toledo, Peoria & Western Railroad to point 2.1 miles northwest of La Harpe (by S. R. Archer in 1910; portion of line between bench marks "562" near Iowa Junction and "673" at Disco reelevated in 1931)

[Continued from Burlington quadrangle, line 1]

Carman, 1.5 mi. S. of sta., 1.8 mi. N. of Iowa Junction, 75 ft. SE. of rd. crossing, at intersection of E. right-of-way line and S. fence line of rd.; standard iron post with bronze cap stamped "537" (recovered in 1914) -----

Iowa Junction, 0.8 mi. SE. of, 40 ft. SW. of track, on SW. side of rd.; standard iron post with bronze cap stamped "562" (recovered by U. S. C. & G. S. in 1935) -----

Iowa Junction, 2.5 mi. SE. of, 3.4 mi. NW. of Disco, 40 ft. E. of rd. crossing, 15 ft. NW. of fence corner, at E. right-of-way line, on N. side of rd.; standard iron post with bronze cap stamped "614" ^{so} -----

Reference mark, 165 ft. SE. of rd. crossing, at W. right-of-way fence line, in root on SW. side of 12-in. hickory tree; copper nail and washer (established in 1931) -----

Disco, 0.1 mi. NW. of sta., in NW. angle of crossing of range-line rd., 10 ft. W. of fence corner; standard iron post with bronze cap stamped "673" (recovered by U. S. C. & G. S. in 1935) -----

[Continued in La Harpe quadrangle, line 1]

^{so} In 1931 this bench mark was found to have been disturbed and was reset near the original location at an elevation about 1.1 ft. higher than that previously determined. The figures given represent the new elevation.

	Feet
	536. 922
	561. 980
	614. 638
	612. 46
	672. 299

692 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

2. From point 1 mile north and 1 mile east from Disco west along township-line road and south along range-line road to Disco (by R. G. Clinite in 1914)

[Continued from La Harpe quadrangle, line 4]

Disco, 1.0 mi. N. of, at NW. cor. sec. 6, T. 7 N., R. 5 W., 25 ft. S. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 7 1914 '682'" (recovered in 1931) -----

Feet
681. 150

3. From point 1.5 miles south of Carman north along Chicago, Burlington & Quincy Railroad to Carman, thence east and southeast along road to point near southwest corner sec. 29, T. 9 N., R. 5 W. (by R. G. Clinite in 1914)

Carman, 2.8 mi. E. of, near center of sec. 30, T. 9 N., R. 5 W., 0.1 mi. W. of foot of bluff, in center of grass plot at rd. fork; standard iron post with bronze cap stamped "Prim Trav Sta No 6 1914 578" (recovered in 1931) -----

577. 188

[Continued in La Harpe quadrangle, line 3]

4. From point 1.9 miles northeast of East Fort Madison northeast along Atchison, Topeka & Santa Fe Railway to Dallas City (by L. V. Johnson in 1928)

[Continued from Fort Madison quadrangle, line 1]

Pontoosuc, in S. part of, 25 ft. N. and 35 ft. W. from intersection of N. track and N.-S. rd., 3 ft. N. of corner fence post of right-of-way fence, in concrete post; standard tablet stamped "6 LJ 1928" (recovered by U. S. C. & G. S. in 1935) -----

531. 876

Dallas City, 100 ft. NE. of E. corner of A. T. & S. F. Ry. sta., 6 ft. NW. of NW. rail, 4.5 ft. NE. of NE. end of sta. platform, on NW. edge of concrete sidewalk; chiseled square (recovered in 1931) -----

536. 95

Dallas City, 1.0 mi. NE. of A. T. & S. F. Ry. sta., 0.22 mi. N. and 0.1 mi. E. from SW. cor. sec. 36, T. 8 N., R. 7 W., 620 ft. SE. of A. T. & S. F. Ry. track, 469 ft. SE. of Chicago, Burlington & Quincy R. R. track, 115 ft. uphill from end of lane on lower side of small orchard; Mississippi River Comm. B. M. 120/1 (recovered in 1931)

614. 040
610. 050

cap on iron pipe -----
bolt in tile -----

5. From Pontoosuc south along road 0.25 mile, thence west along highway to point 1.9 miles northeast of Niota (by S. R. Archer in 1931)

Pontoosuc, 0.2 mi. below, 230 ft. from river bank, 120 ft. S. of NW. corner of Osage-orange hedge enclosing field on E. side of rd., 116 ft. S. of fence corner, 3 ft. E. of fence, at point where rd. turns S. from river along section line; Mississippi River Comm. B. M. 119/2
cap on iron pipe -----
bolt in tile -----

521. 510
517. 510

Pontoosuc, 0.5 mi. S. of, 0.2 mi. W. of quarter corner between secs. 4 and 9, T. 7 N., R. 7 W., 170 ft. E. of crossroads, at concrete bridge over Opossum Creek, on top of N. parapet of W. abutment; chiseled square -----

541. 21

Pontoosuc, 0.5 mi. S. thence 0.3 mi. W. from, near W. cor. secs. 4 and 9, T. 7 N., R. 7 W., at W. abutment of bridge over Spillman Creek, on top of N. parapet; chiseled square -----

534. 83

Pontoosuc, 0.5 mi. S. thence 1.1 mi. W. from, 0.2 mi. E. of W. cor. secs. 5 and 8, T. 7 N., R. 7 W., 300 ft. W. of junction of T-rd. S., at concrete culvert, on top of W. end of S. head wall; chiseled square.
 Pontoosuc, 0.5 mi. S. thence 1.7 mi. W. from, 0.2 mi. S. and 0.4 mi. E. from NW. cor. sec. 7, T. 7 N., R. 7 W., 130 ft. E. of farmhouse on S. side of rd., at concrete culvert, on top of W. end of S. head wall; chiseled square (recovered by U. S. C. & G. S. in 1935)
 Pontoosuc, 0.5 mi. S. thence 1.9 mi. W. from, 2.3 mi. NE. of Niota, 0.25 mi. S. and 0.2 mi. E. from NW. cor. sec. 7, T. 7 N., R. 7 W., 170 ft. E. of service sta. on N. side of highway, at W. abutment of concrete bridge, on top of S. parapet; chiseled square

Feet
535.73

542.450

540.93

[Continued in Fort Madison quadrangle, line 3]

6. From Dallas City generally east along Hancock-Henderson county line road to crossroads 1 mile north of Disco, thence south 1 mile (by S. R. Archer in 1931)

Dallas City, 0.3 mi. SW. of Atchison, Topeka & Santa Fe Ry. sta., 820 ft. below (SW. of) button factory, 197 ft. W. of red barn belonging to Amos Wright, 15 ft. S. of center line of rd. along river bank, 18 in. S. of rd. fence, 12 in. above ground; cap on iron pipe (U. S. C. E. B. M. 29; recovered by U. S. C. & G. S. in 1935)
 Dallas City, in N. angle of intersection of Third and Pine Streets, on concrete head wall of small culvert; chiseled square
 Dallas City, in E. angle of intersection of Third and Elm Streets, at W. corner of schoolyard, in concrete post; standard tablet stamped "8 A 1931"

526.239

536.92

537.469

Reference mark, in N. angle of intersection of Third and Elm Streets, on top of NE. end of head wall of concrete culvert; chiseled square

538.67

Dallas City, 0.8 mi. E. of, 0.17 mi. S. and 0.3 mi. E. from NW. cor. sec. 1, T. 7 N., R. 7 W., 350 ft. E. of rd. fork, on S. side of rd., 15 ft. E. of NW. corner of yard of residence of C. H. Yerrick, in root on NW side of 48-in. maple tree; copper nail and washer
 Dallas City, 1.5 mi. E. of, near NE. cor. sec. 1, T. 7 N., R. 7 W., at E. abutment of bridge over Camp Creek, on top of S. parapet; chiseled square

642.84

Dallas City, 2.0 mi. E. of, 0.1 mi. NW. of S $\frac{1}{4}$ cor. sec. 31, T. 8 N., R. 6 W., 400 ft. NW. of angle in rd., on top of S. end of E. head wall of concrete culvert; chiseled square

533.66

Dallas City, 2.6 mi. E. of, near SW. cor. sec. 32, T. 8 N., R. 6 W., at offset crossroads, 20 ft. E. of junction of T-rd. S., at culvert under E-W. rd., on top of W. end of N. head wall; chiseled square

553.58

Dallas City, 3.1 mi. E. of, near N $\frac{1}{4}$ cor. sec. 5, T. 7 N., R. 6 W., 150 ft. S. of rd., at entrance to Enterprise Church, on W. end of doorsill; chiseled square

573.92

Dallas City, 3.6 mi. E. of, near NE. cor. sec. 5, T. 7 N., R. 6 W., 170 ft. W. of junction of T-rd. N., on S. side of rd., in root on NE. side of 20-in. hickory tree; copper nail and washer

640.14

Dallas City, 4.2 mi. E. of, 1.0 mi. N. thence 3.5 mi. W. from Disco, near N $\frac{1}{4}$ cor. sec. 4, T. 7 N., R. 6 W., 60 ft. S. of junction of T-rd. S., in top of N. end of E. head wall of concrete bridge; standard tablet stamped "14 A 1931"

644.70

610.194

694 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Disco, 1.0 mi. N. thence 3.0 mi. W. from, near S. cor. secs. 33 and 34, T. 8 N., R. 6 W., 60 ft. S. of junction of rd. NW., at concrete culvert, on top of W. head wall, 4 ft. S. of N. end; chiseled square.	Feet 615. 93
Disco, 1.0 mi. N. thence 2.5 mi. W. from, near N $\frac{1}{4}$ cor. sec. 3, T. 7 N., R. 6 W., 90 ft. E. of junction of woods rd. N., on S. side of rd., at fence line, in root on N. side of 24-in. forked oak tree; copper nail and washer.	683. 22
Disco, 1.0 mi. N. thence 2.0 mi. W. from, near NW. cor. sec. 2, T. 7 N., R. 6 W., at offset crossroads, in SE. angle of junction of T-rd. S., in NW. corner of yard, in root on W. side of 24-in. maple tree; copper nail and washer.	721. 40
Disco, 1.0 mi. N. thence 1.2 mi. W. from, 0.25 mi. W. of NE. cor. sec. 2, T. 7 N., R. 6 W., 10 ft. S. and 25 ft. E. from NW. corner of churchyard, in root on NW. side of 20-in. pine tree; copper nail and washer.	744. 15
Disco, 1.0 mi. N. thence 0.6 mi. W. from, 0.1 mi. W. of N $\frac{1}{4}$ cor. sec. 1, T. 7 N., R. 6 W., 135 ft. E. of crossing of Toledo, Peoria & Western R. R., on S. side of rd., at fence line, in root on N. side of 10-in. walnut tree; copper nail and washer.	685. 88
Disco, 0.5 mi. N. of, near W $\frac{1}{4}$ cor. sec. 6, T. 7 N., R. 5 W., on top of S. end of E. head wall of concrete bridge; chiseled square.	653. 30
7. From point 1 mile north and 1 mile east from Powellton east along township-line road to north corner secs. 5 and 6, T. 6 N., R. 7 W., thence south 3.5 miles to point near quarter corner between secs. 19 and 20 (by S. R. Archer in 1931)	
[Continued from Fort Madison quadrangle, line 3]	
Powellton, 1.0 mi. N. thence 1.8 mi. E. from, near NE. cor. sec. 5, T. 6 N., R. 7 W., at offset crossroads, 130 ft. S. and 60 ft. E. from junction of T-rd. S., in field, in root on NW. side of 48-in. cottonwood tree; copper nail and washer.	698. 96
Powellton, 1.8 mi. E. of, at Lincoln School, near NE. cor. sec. 8, T. 6 N., R. 7 W., 165 ft. S. of crossroads, on E. side of rd., at fence line, 4.5 ft. S. of SW. corner of schoolyard, in concrete post; standard tablet stamped "9 A 1931".	698. 220
Reference mark, 10.5 ft. N. and 13 ft. E. from tablet, in root on NW. side of 30-in. maple tree; copper nail and washer.	698. 07
Powellton, 1.0 mi. S. thence 1.8 mi. E. from, 3.5 mi. W. of Adrian, in SE cor. sec. 7, T. 6 N., R. 7 W., in NW. angle of crossroads, at concrete culvert under N.-S. rd., on top of N. end of W. head wall; chiseled square.	701. 82
Powellton, 2.0 mi. S. thence 1.8 mi. E. from, near Douglas School, near SW. cor. sec. 17, T. 6 N., R. 7 W., 50 ft. N. and 60 ft. E. from crossroads, on SW. corner of concrete curb around top of well; chiseled square.	701. 92
[Continued in Carthage quadrangle, line 4]	
8. From crossroads 2 miles south and 1.8 miles east from Powellton generally east along roads to point near west quarter corner sec. 17, T. 6 N., R. 5 W. (by S. R. Archer in 1931)	
Powellton, 2.0 mi. S. thence 2.8 mi. E. from, 6.1 mi. W. of Burnside, near NE. cor. sec. 20, T. 6 N., R. 7 W., in SW. angle of crossroads, at NE. corner of yard of dwelling, on rd. side of fence, in root on N. side of 48-in. maple tree; copper nail and washer.	702. 56

Burnside, 5.1 mi. W. of, near Center School, near NE. cor. sec. 22, T. 6 N., R. 7 W., 35 ft. S. and 30 ft. E. from crossroads, 5 ft. S. of fence corner, in concrete post; standard tablet stamped "10 A 1931"-----	Feet 707.314
Reference mark, at SE. corner of schoolyard, in NW. angle of crossroads, in root on SE. side of 36-in. maple tree; copper nail and washer-----	708.48
Burnside, 4.1 mi. W. of, 1.0 mi. S. and 0.5 mi. W. from Adrian, near NW. cor. sec. 23, T. 6 N., R. 7 W., in SE. angle of crossroads, at concrete bridge running diagonally under crossroads, on NE. corner at SE. end of concrete floor of bridge; chiseled square-----	689.12
Chicago, Burlington & Quincy R. R. crossing; top of W. rail-----	690.5
Burnside, 3.0 mi. W. of, 1.0 mi. S. and 0.5 mi. W. from Adrian, near Jefferson School, near NW. cor. sec. 24, T. 6 N., R. 7 W., 60 ft. E. of crossroads, on S. side of rd., on N. side of schoolyard, in root on S. side of 15-in. ash tree; copper nail and washer-----	688.10
Burnside, 2.0 mi. W. of, near SE. cor. sec. 13, T. 6 N., R. 6 W., at offset crossroads, 23 ft. N. and 60 ft. W. from junction of State Highway 94 and T-rd. W., 30 ft. W. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 50 1910"-----	668.193
Reference mark, SE. of tablet, in NE. angle of junction of highway and T-rd. E., 15 ft. E. of fence corner, in root on N. side of 12-in. hedge tree; copper nail and washer-----	667.35
Burnside, 1.0 mi. W. of, near NE. cor. sec. 19, T. 6 N., R. 6 W., 430 ft. S. of crossroads, on W. side of rd., at fence line, in root on NW. side of 24-in. hedge tree; copper nail and washer-----	659.12
Burnside, 1.0 mi. W. thence 1.0 mi. N. from, near NW. cor. sec. 17, T. 6 N., R. 6 W., 160 ft. S. of crossroads, on E. side of rd., in root on W. side of 36-in. ash tree; copper nail and washer-----	660.62
Burnside, 1.0 mi. N. of, near SW. cor. sec. 9, T. 6 N., R. 6 W., in NE. corner of crossroads, on top of N. head wall of concrete culvert under E-W. rd.; chiseled square-----	634.45
Burnside, 1.0 mi. N. thence 1.0 mi. E. from, 0.8 mi. S. and 3.0 mi. W. from Lacrosse, at Liberty School, near SE. cor. sec. 9, T. 6 N., R. 6 W., 30 ft. N. and 180 ft. W. from crossroads, at SW. corner of schoolyard, in concrete post; standard tablet stamped "13 A 1931"-----	633.093
Reference mark, NE. of tablet, 9 ft. S. of front door of schoolhouse, on E. side near N. end of concrete sidewalk; chiseled square-----	636.58
Lacrosse, 0.8 mi. S. and 2.0 mi. W. from, near SE. cor. sec. 11, T. 6 N., R. 6 W., 390 ft. E. of junction of T-rd. S., on top of E. end of N. head wall of concrete culvert; chiseled square-----	583.33
Lacrosse, 0.8 mi. S. and 1.8 mi. W. from, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 11, T. 6 N., R. 6 W., at NW. corner of steel bridge over Grove Creek, at center of expansion plate at W. end of N. truss, on head of westernmost of three rivets; chiseled cross-----	569.78
Lacrosse, 1.0 mi. S. and 1.5 mi. W. from, 0.25 mi. N. of center of sec. 14, T. 6 N., R. 6 W., at bridge over La Moine River, at center of expansion plate at N. end of W. truss, on head of northernmost of three rivets; chiseled cross-----	568.75
Toledo, Peoria & Western R. R. crossing; top of E. rail-----	575.4

696 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Lacrosse, 1.3 mi. S. thence 0.8 mi. W. from, 0.2 mi. E. of W ¹ / ₄ cor. sec. 13, T. 6 N., R. 6 W., 170 ft. W. of junction of T-rd. S., on N. side of rd., 5 ft. W. of SW. corner of yard of dwelling, in root on S. side of 18-in. maple tree; copper nail and washer-----	<i>Feet</i> 617.44
Lacrosse, 1.3 mi. S. of, 30 ft. N. of quarter corner between secs. 13 and 18, T. 6 N., Rs. 5 and 6 W., in NW. angle of crossroads, at corner of yard; standard iron post with bronze cap stamped "Prim Trav Sta No 49 1910"-----	641.600
Reference mark, 4 ft. NW. of iron post, in SE. corner of yard, in root on S. side, 12 in. from trunk, of 18-in. maple tree; copper nail and washer-----	641.36
Lacrosse, 1.3 mi. S. thence 0.9 mi. E. from, 0.3 mi. E. of center of sec. 18, T. 6 N., R. 5 W., 230 ft. E. of N.-S. sixteenth line, on N. side of rd., in root on S. side of 18-in. oak tree; copper nail and washer-----	633.17

[Continued in La Harpe quadrangle, line 7]

MACKINAW QUADRANGLE

[Latitude $40^{\circ}30'$ – $40^{\circ}45'$; longitude $89^{\circ}15'$ – $89^{\circ}30'$]

MCLEAN, TAZEWELL, AND WOODFORD COUNTIES

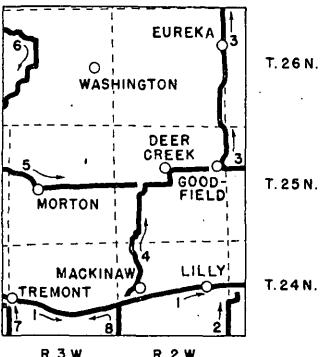


FIGURE 125.—Lines of leveling in Mackinaw quadrangle.

1. From point near Tremont east along Cleveland, Cincinnati, Chicago & St. Louis Railway to point about 1 mile west of Woodruff (by E. L. McNair in 1905; first-order leveling)

[Continued from Peoria quadrangle, line 7]

	Feet
Tremont, at sta.; top of rail-----	643. 4
Tremont, at sta., 25 ft. SE. of intersection of Locust Street, at W. end of concrete platform, 40 in. in ground; standard iron post with bronze cap designated "E" (recovered in 1930)-----	642. 889
Menert, 0.4 mi. W. of, at plate girder bridge over Mud Creek, in N. end of E. abutment; aluminum tablet designated "F" (recovered in 1930)-----	575. 097
Menert, 0.7 mi. E. of, at R. R. bridge over Mackinaw River, in top of S. end of W. abutment, about 6 ft. below top of rail, 3.5 ft. from center line of track, midway between S. shoeplate and S. floor beam, in first panel from W.; aluminum tablet designated "G" (recovered in 1930) ⁶⁰ -----	579. 694
Mackinaw, 175 ft. W. of sta., 20 ft. N. of track, at pedestal of water tank, in top of first cap in E. pier; aluminum tablet designated "H" (not recovered in 1928)-----	645. 698
Mackinaw, at sta.; top of rail-----	645. 0
Lilly, 90 ft. W. of sta., 5 ft. N. of center line of track, at W. end of concrete platform, in top of SW. corner; aluminum tablet designated "I"-----	802. 725
Lilly, at sta., top of rail-----	801. 9

[Continued in Danvers quadrangle, line 1]

⁶⁰ In 1925 this bench mark was lowered 2,900 ft. The figures given represent the new elevation.

2. From point 2.6 miles south and 1 mile east from Lilly alternately north and east along roads to point about 1 mile west of Woodruff (by C. E. Walker in 1925)

[Continued from Minier quadrangle, line 1]

Lilly, 0.9 mi. S. and 1.0 mi. E. from, about 0.15 mi. S. of NE. cor. sec. 24, T. 24 N., R. 2 W., 180 ft. S. of junction of State Highway 164, on W. side of rd., on concrete head wall; chiseled square—
 Lilly, 1.6 mi. E. of, 1.4 mi. W. of Woodruff, about 7 mi. S. of Goodfield, 100 ft. N. and 15 ft. W. from center of rd. crossing, 60 ft. N. of track of Illinois Traction System, at Parker sta., 5 ft. SE. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 70 F 1925"—

Feet
724. 52

823. 654

[Connects with line 1 in Danvers quadrangle]

3. From point 2.8 miles northwest of Congerville west along State Highway 9 to Goodfield, thence north along State Highway 117 to point 1.8 miles north of Eureka (by C. E. Walker in 1925)

[Continued from Danvers quadrangle, line 4]

Congerville, 3.2 mi. NW. of, 1.0 mi. E. of Goodfield, in NE $\frac{1}{4}$ sec. 18, T. 25 N., R. 1 W., on S. side of rd., in front of farmhouse of Wm. Holliger, on NE. corner of concrete platform; chiseled square—
 Goodfield, at junction of State Highway 117, 40 ft. N. and 40 ft. E. from crossroads, 2 ft. S. and 12 ft. E. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 73 F 1925" (recovered in 1927)—

741. 27

Reference mark, 0.18 mi. N. of tablet, at E. outskirts of Goodfield, at crossroads, near NW. corner of schoolyard, on culvert; chiseled square—

749. 670

Goodfield, 1.6 mi. N. of, 0.25 mi. N. of SE. cor. sec. 1, T. 25 N., R. 2 W., 33 ft. NW. of junction of T-rd. W., 150 ft. SW. of Galey School, on N. end of concrete culvert; chiseled square—

741. 42

Goodfield, 2.5 mi. N. of, near NE. cor. sec. 1, T. 25 N., R. 2 W., at short E.-W. jog in rd., on N. side of rd., on top near center of concrete head wall of culvert; chiseled square—

745. 79

Goodfield, 3.7 mi. N. of, about 3.5 mi. S. of Atchison, Topeka & Santa Fe Ry. sta. at Eureka, 0.25 mi. W. of SE. cor. sec. 25, T. 26 N., R. 2 W., 25 ft. N. and 30 ft. E. from junction of T-rd. W., 25 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 74 F 1925"—

744. 77

Reference mark, 34 ft. SW. of rd. junction, on top of S. head wall of concrete culvert; chiseled square—

727. 080

Eureka, 2.3 mi. S. of, near SE. cor. sec. 24, T. 26 N., R. 2 W., at E. end of E.-W. jog in highway, 250 ft. N. of junction of E.-W. rd. and T-rd. N., on W. head wall of concrete culvert below surface of rd.; chiseled square—

724. 85

Eureka, 113 ft. E. of E. end of A. T. & S. F. Ry. sta., 18 ft. S. of S. rail of switch point on main track, 2 ft. S. of iron railing, in concrete post; standard tablet stamped "Prim Trav Sta No 75 F 1925"—

727. 07

Reference mark, 42.4 ft. W. of NW. corner of sta., 2 ft. S. of S. rail of main track, on curb of sta. platform; chiseled square—

738. 897

[Continued in Metamora quadrangle, line 1]

738. 55

4. From point 0.4 mile west of Menert along State Highway 164 and other roads northeast to Mackinaw, thence generally north to point 0.8 mile south and 1.5 miles west from Deer Creek, thence alternately east and north along State Highway 9 to Goodfield
(by J. A. Shumate in 1927)

	Feet
Menert, 0.7 mi. E. of, 2.4 mi. SW. of Mackinaw, in NW $\frac{1}{4}$ sec. 24, T. 24 N., R. 3 W., at plate-girder bridge over Mackinaw River, on S. end of W. abutment; chiseled square-----	582. 55
Mackinaw, 1.2 mi. SW. of, near quarter corner between secs. 18 and 19, T. 24 N., R. 2 W., 550 ft. NE. of crossing of Cleveland, Cincinnati, Chicago & St. Louis Ry., at small steel bridge, on S. end of W. abutment; chiseled square-----	583. 52
Mackinaw, in SE. corner of park, 2.5 ft. S. and 2.5 ft. W. from SW. corner of police sta., in limestone post; standard tablet stamped "11 JAS 1927"-----	683. 234
Reference mark, 100 ft. S. 80° W. from tablet, at drinking fountain, on NW. corner of concrete foundation; chiseled square-----	683. 76
Mackinaw, 0.6 mi. N. of, in SW $\frac{1}{4}$ sec. 8, T. 24 N., R. 2 W., at bridge over Mackinaw River, on top of E. end of S. abutment; chiseled square-----	591. 08
Mackinaw River; surface of water July 15, 1927-----	575. 2
Mackinaw, 1.4 mi. N. of, near NW. cor. sec. 8, T. 24 N., R. 2 W., in SW. angle of turn from N. to W. in rd., at top of hill, in root on E. side of 15-in. black-oak tree; copper nail and washer-----	728. 70
Mackinaw, 2.7 mi. N. of, 0.2 mi. W. of NE. cor. sec. 6, T. 24 N., R. 2 W., 10 ft. S. and 20 ft. E. from junction of T-rd. W., in root on E. side of 12-in. boxelder tree; copper nail and washer-----	758. 87
Mackinaw, 3.5 mi. N. of, 3.2 mi. S. and 1.8 mi. W. from Deer Creek, about 600 ft. E. of W $\frac{1}{4}$ cor. sec. 32, T. 25 N., R. 2 W., 22 ft. N. and 5 ft. E. from junction of T-rd. S., 1 ft. S. of fence, in limestone post; standard tablet stamped "12 JAS 1927"-----	762. 535
Reference mark, 83 ft. S. 50° W. from tablet, in root on N. side of 15-in. boxelder tree; copper nail and washer-----	759. 83
Deer Creek, 2.8 mi. S. and 1.7 mi. W. from, 0.25 mi. E. of NW. cor. sec. 32, T. 25 N., R. 2 W., at Newcastle School (School No. 18), on top of N. end of concrete step; chiseled square-----	756. 43
Deer Creek, 1.3 mi. S. and 1.5 mi. W. from, near center of sec. 20, T. 25 N., R. 2 W., 35 ft. due E. of right-angle turn from E. to N. in rd., in NW. corner of barnyard, in root on W. side of 18-in. hickory tree; copper nail and washer-----	741. 47
Deer Creek, 0.8 mi. S. thence 1.5 mi. W. from, near N $\frac{1}{4}$ cor. sec. 20, T. 25 N., R. 2 W., in SW. angle of junction of State Highway 9, on top of W. head wall of concrete culvert; chiseled square-----	716. 38
Deer Creek, 0.8 mi. S. thence 1.0 mi. W. from, near SW. cor. sec. 16, T. 25 N., R. 2 W., in NE. angle of crossroads, in root on S. side of 20-in. maple tree; copper nail and washer-----	732. 48
Deer Creek, 0.8 mi. S. of, near SE. cor. sec. 16, T. 25 N., R. 2 W., in NW. angle of crossroads, in root on W. side of 20-in. maple tree; copper nail and washer-----	751. 09
Deer Creek, near SE. corner of, 105 ft. S. and 30 ft. W. from over-grade crossing of New York, Chicago & St. Louis R. R., in concrete post; standard tablet stamped "Prim Trav Sta No 98 F 1925"-----	753. 425
Reference mark, 137 ft. S. and 15 ft. E. from tablet, on top of W. head wall of concrete culvert; chiseled square-----	752. 74

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Deer Creek, 0.6 mi. E. of, 2.3 mi. W. of highway junction at Goodfield, about 0.25 mi. N. of center of sec. 15, T. 25 N., R. 2 W., on N. side of rd., 18 ft. N. of center line of pavement, on E. head wall of concrete culvert under private rd. N.; chiseled square----- Feet
743. 13

Goodfield, 1.3 mi. W. of, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 14, T. 25 N., R. 2 W., in NW. angle of crossroads, on top of W. head wall of concrete culvert; chiseled square----- 737. 60

5. From point about 2.5 miles northwest of Morton southeast along roads to Morton, thence east along State Highway 9 to road junction 0.8 mile south and 1.5 miles west from Deer Creek (by J. A. Shumate in 1927)

[Continued from Peoria quadrangle, line 14]

Morton, 2.1 mi. NW. of intersection of State Highway 9 at, near NE. cor. sec. 13, T. 25 N., R. 4 W., in NW. angle of junction of rd. N., in root on S. side of 12-in. hickory tree; copper nail and washer----- 727. 57

Morton, 1.3 mi. NW. of, about 0.2 mi. N. of E $\frac{1}{4}$ cor. sec. 18, T. 25 N., R. 3 W., 100 ft. N. and 180 ft. W. from junction of rd. N., in root on S. side of 12-in. elm tree; copper nail and washer----- 729. 08

Morton, 0.8 mi. NW. of, about 0.2 mi. S. of center of sec. 17, T. 25 N., R. 3 W., 400 ft. NW. of junction of interurban tracks, on S. side of rd., in root on N. side of 12-in. cherry tree; copper nail and washer----- 714. 07

Morton, at E. edge of, 30 ft. N. and 20 ft. E. from junction of T-rd. N., at SE. corner of yard of high school, in concrete post; standard tablet stamped "Prim Trav Sta No 100 F 1925"----- 717. 911

Reference mark, 175 ft. S. 60° W. from tablet, at W. door of high school, on W. end of first step; chiseled square----- 720. 86

Morton, 1.0 mi. E. of, about 0.15 mi. W. of SE. cor. sec. 16, T. 25 N., R. 3 W., at concrete bridge over Bull Run, on top of N. end of E. abutment; chiseled square----- 701. 54

Bull Run; surface of water Aug. 11, 1927----- 692. 5

Morton, 1.7 mi. E. of, near S $\frac{1}{4}$ cor. sec. 15, T. 25 N., R. 3 W., in NE. angle of crossroads, on top of E. head wall of concrete culvert; chiseled square----- 717. 31

Morton, 2.4 mi. E. of, about 1,200 ft. W. of N $\frac{1}{4}$ cor. sec. 23, T. 25 N., R. 3 W., on top of S. head wall of concrete bridge under pavement; chiseled square----- 730. 12

Morton, 3.2 mi. E. of, near SW. cor. sec. 13, T. 25 N., R. 3 W., in NE. angle of crossroads, on top of E. head wall of concrete culvert; chiseled square----- 779. 38

Morton, 4.2 mi. E. of, about 14.5 mi. SE. of Peoria, 0.8 mi. S. thence 3.0 mi. W. from Deer Creek, 30 ft. S. and 3 ft. E. from NW. cor. sec. 19, T. 25 N., R. 2 W., 3 ft. from highway marker, near NE. corner of orchard, in concrete post; standard tablet stamped "Prim Trav Sta No 99 F 1925"----- 800. 810

Reference mark, 15 ft. S. 45° E. from tablet, in root on N. side of 18-in. cherry tree; copper nail and washer----- 800. 40

Deer Creek, 0.8 mi. S. thence 2.3 mi. W. from, about 900 ft. E. of S $\frac{1}{4}$ cor. sec. 18, T. 25 N., R. 2 W., on top of E. head wall of concrete culvert under private driveway N.; chiseled square----- 747. 46

Deer Creek, 0.8 mi. S. thence 1.7 mi. W. from, at Mud Creek; surface of water Aug. 10, 1927----- 697. 4

6. From point 1.3 miles northwest of Columbia School along roads southeast, south, and southwest to point 0.8 mile northeast of Farmdale (by J. A. Shumate in 1927)

[Continued from Peoria quadrangle, line 13]

	Feet
Columbia School, 0.6 mi. NW. of, in NE $\frac{1}{4}$ sec. 7, T. 26 N., R. 3 W., 25 ft. E. of N. end of N-S. jog in rd., on top of N. head wall of concrete culvert; chiseled square-----	760.28
Columbia School, 55 ft. N. and 30 ft. E. from NE. corner of, in NW $\frac{1}{4}$ sec. 8, T. 26 N., R. 3 W., in concrete post; standard tablet stamped "Prim Trav Sta No 126 F 1925"-----	767.080
Reference mark, 69 ft. S. 19° W. from tablet, in front of schoolhouse, 1 ft. S. of door, on concrete platform; chiseled square-----	768.60
Columbia School, 1.3 mi. SE. of, 1.0 mi. N. and 3.0 mi. W. from Washington, near SE. cor. sec. 8, T. 26, N., R. 3 W., 250 ft. W. of junction of T-rd. E., in front of house, on SW. corner of walk; chiseled square-----	795.51
Washington, 3.0 mi. W. of, 0.5 mi. E. of Hopewell School, near SW. cor. sec. 16, T. 26 N., R. 3 W., 165 ft. N. and 12 ft. E. from junction of E-W. rd., on E. head wall of concrete culvert; chiseled square-----	762.33
Hopewell School, near N $\frac{1}{4}$ cor. sec. 20, T. 26 N., R. 3 W., 15 ft. S. and 75 ft. E. from junction of T-rd. S., on NW. corner of concrete walk to schoolhouse; chiseled square-----	750.47
Hopewell School, 0.7 mi. S. of, about 3.7 mi. along State Highway 8 SW. of Washington, 0.2 mi. S. of center of sec. 20, T. 26 N., R. 3 W., in SE. angle of crossroads, on top near center of E. head wall of concrete culvert; chiseled square-----	752.09
Washington, 4.2 mi. SW. of, about 8 mi. E. of Peoria, 3.0 mi. NE. of Farmdale, 0.25 mi. N. of SW. cor. sec. 20, T. 26 N., R. 3 W., 30 ft. S. and 35 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 103 F 1925"-----	714.976
Reference mark, 24 ft. W. of tablet, in SE. corner of rd. junction, on top near center of E. concrete head wall of culvert; chiseled square-----	715.20
Farmdale, 2.4 mi. NE. of, 0.35 mi. S. of NW. cor. sec. 29, T. 26 N., R. 3 W., 10 ft. N. and 15 ft. E. from turn W. in rd., in root on NW. side of 10-in. elm tree; copper nail and washer-----	719.46
Farmdale, 1.5 mi. NE. of, in SW $\frac{1}{4}$ sec. 30, T. 26 N., R. 3 W., in SE. angle of right-angle turn in rd., 240 ft. W. of junction of rd. S., in root on S. side of 15-in. cherry tree; copper nail and washer-----	679.04

[Continued in Peoria quadrangle, line 14]

7. North 2 miles along road to Tremont (by S. R. Archer in 1930; 0.6 mile in Tremont leveled twice)

[Continued from Minier quadrangle, line 5]

Tremont, 1.8 mi. S. of Cleveland, Cincinnati, Chicago & St. Louis Ry. sta., near W $\frac{1}{4}$ cor. sec. 30, T. 24 N., R. 3 W., in NE. corner of junction of T-rd. E., on top of E. end of N. head wall of concrete culvert under rd. E.; chiseled square-----	651.16
Tremont, in SW. part of, 0.25 mi. S. of NW. cor. sec. 19, T. 24 N., R. 3 W., 35 ft. E. of rd. S., 55 ft. W. of junction of T-street N., on S. side of street, 8 ft. E. of fence corner, in root on E. side of 24-in. boxelder tree; copper nail and washer-----	659.78
Tremont, at SW. corner of city water works pumping sta., at SE. leg of water tower, on top of SW. corner of large lower concrete base; chiseled square-----	659.39

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Tremont, on N. side of C. C. C. & St. L. Ry. sta., at large doorway to baggage room, on top of E. end of concrete doorsill; chiseled square-----	Feet 644.10
8. From point 2.5 miles south and 1.3 miles west from Mackinaw north along range-line road to State Highway 164, thence west to Tremont (by M. W. Clark in 1930; leveled twice from point 0.4 mile west of Menert)	
[Connects with line 6 in Minier quadrangle]	
Mackinaw, 1.7 mi. SW. thence 1.6 mi. S. from, about 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 25, T. 24 N., R. 3 W., 0.2 mi. N. of junction of T-rd. W., on W. side of rd., in root on E. side of 36-in. elm tree; copper nail and washer-----	651.60
Mackinaw, 1.7 mi. SW. of, 1.4 mi. E. of Menert, about 0.25 mi. S. of NE cor. sec. 24, T. 24 N., R. 3 W., 100 ft. W. of junction of State Highway 164, on S. edge of pavement; chiseled square-----	586.41
Menert, 0.7 mi. E. of, at highway bridge over Mackinaw River, opposite tablet in R. R. bridge, on NW. wing wall; chiseled square ⁶¹ -----	586.22
Menert, 2.2 mi. W. of, 2.5 mi. E. of Tremont, near center of sec. 21, T. 24 N., R. 3 W., 18 ft. S. and 25 ft. E. from intersection of highway and N.-S. rd., on N. end of concrete head wall of culvert; chiseled square-----	666.36
Tremont, 1.6 mi. E. of, in NE $\frac{1}{4}$ sec. 20, T. 24 N., R. 3 W., at concrete highway bridge over Prairie Creek, in SE. wing wall; standard tablet stamped "20 A 1930"-----	631.186
Reference mark, on NE. wing wall of bridge; chiseled square-----	631.18
Tremont, 1.1 mi. E. of, about 0.25 mi. E. of W. cor. secs. 17 and 20, T. 24 N., R. 3 W., 26 ft. S. and 20 ft. E. from junction of rd. S., on N. end of E. head wall of culvert; chiseled square-----	663.89
Tremont, at E. edge of, 18 ft. N. and 80 ft. E. from junction of rd. S., on top of concrete culvert; chiseled square-----	648.93

⁶¹ Established as a reference mark to aluminum tablet designated "G," described in line 1.

MACOMB QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

McDONOUGH AND SCHUYLER COUNTIES

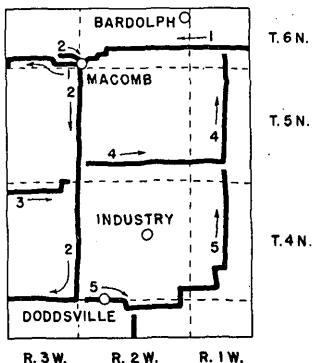


FIGURE 126.—Lines of leveling in Macomb quadrangle.

1. From point 1.4 miles south and 1.5 miles west from New Philadelphia west along roads to point 4 miles west of Macomb (by E. M. Bandli in 1909; leveled by S. R. Archer in 1910)

[Continued from Vermont quadrangle, line 1]

New Philadelphia, 1.4 mi. S. and 2.7 mi. W. from, 1.7 mi. S. and 2.2 mi. E. from Bardolph, near NW. cor. sec. 33, T. 6 N., R. 1 W., 30 ft.

SE. of crossroads, 2 ft. N. and 4 ft. E. from fence corner; standard iron post with bronze cap stamped "1909 675" (recovered in 1912).
Bardolph, 1.7 mi. S. and 0.8 mi. W. from, 0.7 mi. N. and 4.8 mi. E. from city square at Macomb, near SE. cor. sec. 26, T. 6 N., R. 2 W., 30 ft. NW. of junction of T-rd. N., 3 ft. S. of fence; standard iron post with bronze cap

Macomb, 0.7 mi. N. and 1.8 mi. E. from, near NW. cor. sec. 33, T. 6 N., R. 2 W., 50 ft. SE. of crossroads, 2 ft. N. and 10 ft. E. from fence corner; standard iron post with bronze cap

Macomb, 1.6 mi. W. thence 0.3 mi. N. from, 0.25 mi. E. of center of sec. 35, T. 6 N., R. 3 W., 30 ft. SE. of junction of T-rd. S., 2 ft. N. and 5 ft. W. from fence corner; standard iron post with bronze cap stamped "1909 696" (recovered in 1912)

Macomb, 0.3 mi. S. and 4.1 mi. W. from, 0.3 mi. W. of N $\frac{1}{4}$ cor. sec. 4, T. 5 N., R. 3 W., 160 ft. W. of angle in rd. from N. to W., at township line, 12 ft. S. of rd., 2 ft. N. of fence; standard iron post with bronze cap stamped "1909 621" and "Prim Trav Sta No 62 1910"

	Feet
	674.605
	675.014
	695.025
	695.076
	619.705

[Continued in Colchester quadrangle, line 1]

2. From road junction 0.3 mile north and 1.6 miles west from Macomb
east and south along roads and streets through Macomb and south
along range-line road to McDonough-Schuylerville county line, thence
west to point near northwest corner sec. 4, T. 3 N., R. 3 W.
(by R. G. Clinite in 1912)

Macomb, near NW. corner of campus of Western Illinois State Normal School, 400 ft. NW. of main building, 100 ft. W. of brick well house; standard iron post with bronze cap stamped "1912 702.3" ²²	Feet 701. 771
Macomb, at SW. corner of South Johnson and West Woodbury Streets, on hydrant; top of nut	690. 04
Macomb, 2.8 mi. S. of, near W $\frac{1}{4}$ cor. sec. 18, T. 5 N., R. 2 W., in NE. angle of crossroads, 1 ft. W. of fence corner; standard iron post with bronze cap stamped "1912 627"	626. 222
Macomb, 3.8 mi. S. of, at W $\frac{1}{4}$ cor. sec. 19, T. 5 N., R. 2 W., at junction of T-rd. E., on stone marking quarter corner; chiseled square	644. 66
Macomb, 4.3 mi. S. of, at E. cor. secs. 24 and 25, T. 5 N., R. 3 W., at junction of T-rd. W., on stone marking section corner; chiseled square	662. 83
Macomb, 5.3 mi. S. of, near SW. cor. sec. 30, T. 5 N., R. 2 W., in NE. angle of crossroads, 2 ft. W. of fence corner, in stump of tele- phone pole; copper nail and washer	642. 44
Macomb, 6.3 mi. S. of, near NW. cor. sec. 6, T. 4 N., R. 2 W., at junction of rd. W., on E. side of rd., 14 ft. S. of E.-W. fence line, 2 ft. W. of N.-S. fence; standard iron post with bronze cap stamped "1912 634"	633. 400
Macomb, 9.3 mi. S. of, near NW. cor. sec. 19, T. 4 N., R. 2 W., in SE angle of offset crossroads, 60 ft. S. of fence corner, 5 ft. W. of fence; standard iron post with bronze cap stamped "1912 642"	641. 700
Macomb, 12.3 mi. S. of, 1.4 mi. W. of Doddsville, 28 ft. SW. of stone marking NE. cor. sec. 1, T. 3 N., R. 3 W., on S. side of McDonough- Schuylerville county line, in SW. angle of crossroads, 3 ft. NE. of corner of hedge fence; standard iron post with bronze cap stamped "1912 680"	679. 577
Doddsville, 3.4 mi. W. of, at N. cor. secs. 2 and 3, T. 3 N., R. 3 W., at W. edge of wood lot of Mr. Redding, on stone marking section corner; chiseled square	648. 78
Doddsville, 4.9 mi. W. of, 1.2 mi. N. and 3.7 mi. E. from Birmingham, 150 ft. S. of Mount Zion School, near S $\frac{1}{4}$ cor. sec. 33, T. 4 N., R. 3 W., on N. side of McDonough-Schuylerville county-line rd., opposite junction of T-rd. S., 180 ft. E. of junction of T-rd N., 2 ft. S. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 58 1910 656"	655. 374
[Continued in Colchester quadrangle, line 5]	
3. From point 0.5 mile south and 0.7 mile east from Fandon along roads alternately east and north to point 6.3 miles south of Macomb (by R. G. Clinite in 1912; leveled twice)	
[Connects with line 2 in Colchester quadrangle]	
Fandon, 0.5 mi. S. and 1.6 mi. E. from, near W $\frac{1}{4}$ cor. sec. 3, T. 4 N., R. 3 W., 35 ft. NE. of crossroads, 1 ft. S. and 5.5 ft. E. from fence corner; standard iron post with bronze cap stamped "1912 638"	637. 456
T. 4 N., R. 3 W., at quarter corner between secs. 2 and 3, at center of crossroads, on stone marking quarter corner; chiseled square	602. 60

²² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "D 55
1935," elevation 705.287 ft.

	Feet
T. 4 N., R. 3 W., at N. cor. secs. 1 and 2, at E. end of jog in offset crossroads, on stone marking section corner; chiseled square-----	635. 03
4. From point 5.3 miles south of Macomb east along road to crossroads 0.8 mile south and 1.5 miles east from Pennington Point, thence north to crossroads 1.7 miles south and 2.2 miles east from Bardolph (by R. G. Clinite in 1912)	
Macomb, 5.3 mi. S. thence 1.0 mi. E. from, at cor. secs. 29, 30, 31 and 32, T. 5 N., R. 2 W., at Ebenezer Church and School, at crossroads, on stone marking section corner; chiseled square-----	638. 77
T. 5 N., R. 2 W., near S $\frac{1}{4}$ cor. sec. 28, 35 ft. NW. of crossroads, 1 ft. S. and 5 ft. W. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 46 1911 627"-----	626. 166
T. 5 S., R. 2 W., at quarter corner between secs. 27 and 34, at junction of T-rd. N., on stone marking quarter corner; chiseled square-----	623. 82
T. 5 N., R. 2 W., 32 ft. SE. of cor. secs. 25, 26, 35, and 36, 0.8 mi. S. thence 1.4 mi. W. from Pennington Point, in SE. angle of junction of private rd. S., 8 ft. E. of gate, 1 ft. N. of fence; standard iron post with bronze cap stamped "1912 648"-----	647. 275
Pennington Point, 0.8 mi. S. thence 1.5 mi. E. from, 20 ft. SW. of cor. secs. 28, 29, 32, and 33, T. 5 N., R. 1 W., in SW. angle of crossroads, 3.5 ft. S. and 1 ft. E. from fence corner; standard iron post with bronze cap stamped "1912 650"-----	649. 609
Pennington Point, 0.2 mi. N. thence 1.5 mi. E. from, near E. cor. secs. 21 and 28, T. 5 N., R. 1 W., on E. side of N.-S. rd., opposite junction of T-rd. W., on concrete base of corner fence post; chiseled circle-----	648. 52
T. 5 N., R. 1 W., near E $\frac{1}{4}$ cor. sec. 17, 1.5 mi. W. of Adair, 45 ft. NW. of crossroads, 4 ft. N. and 1 ft. E. from fence corner; standard iron post with bronze cap stamped "1912 646"-----	645. 186
T. 5 N., R. 1 W., near E $\frac{1}{4}$ cor. sec. 5, 3.2 mi. S. and 2.2 mi. E. from Bardolph, in SW. angle of crossroads, on concrete base of corner fence post; chiseled square-----	656. 88
5. From crossroads 1.4 miles west of Doddsville east along McDonough-Schuylerville county-line road 2.6 miles, thence south and east to center of sec. 1, T. 3 N., R. 2 W., thence alternately north and east to crossroads 0.8 mile south and 1.5 miles east from Pennington Point (by R. G. Clinite in 1912)	
Doddserville, 0.5 mi. S. and 1.6 mi. E. from, 2.6 mi. along R. R. N. of Littleton, near quarter corner between secs. 3 and 4, T. 3 N., R. 2 W., 25 ft. W. of center line of tracks of Macomb and Western Illinois R. R. (abandoned), on N. side of rd., 1 ft. S. of fence; standard iron post with bronze cap stamped "1912 660" (recovered in 1923)-----	659. 606
Doddserville, 0.5 mi. N. and 4.1 mi. E. from, 2.8 mi. S. and 2.0 mi. E. from Industry, near center of sec. 36, T. 4 N., R. 2 W., 16 ft. W. of junction of T-rd. E., 1 ft. E. of fence, in line with E.-W. fence; standard iron post with bronze cap stamped "1912 658"-----	657. 290
Industry, 1.8 mi. S. and 4.3 mi. E. from, near W $\frac{1}{4}$ cor. sec. 28, T. 4 N., R. 1 W., 19 ft. S. of junction of rd. N., 1 ft. N. of fence; standard iron post with bronze cap stamped "1912 656"-----	655. 890
Industry, 0.7 mi. N. and 4.3 mi. E. from, 3.8 mi. S. and 1.5 mi. E. from Pennington Point, 39 ft. NW. of cor. secs. 8, 9, 16, and 17, T. 4 N., R. 1 W., in NW. angle of crossroads, 6 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "1912 669"-----	668. 860

MANITO QUADRANGLE

[Latitude $40^{\circ}15'$ - $40^{\circ}30'$; longitude $89^{\circ}45'$ - $90^{\circ}00'$]

FULTON, MASON, AND TAZEWELL COUNTIES

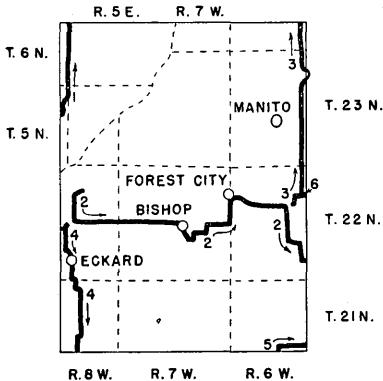


FIGURE 127.—Lines of leveling in Manito quadrangle.

1. From point near Hall School northeast and north along roads to point 3.7 miles south and 2 miles east from Canton (by W. A. Shumate in 1923)

[Continued from Havana quadrangle, line 7]

Hall School, 1.3 mi. NE. of, near $W\frac{1}{4}$ cor. sec. 6, T. 5 N., R. 5 E., in NE. angle of crossroads, in root of 6-in. hedge tree; 20-penny spike

Feet
598.35

T. 6 N., R. 5 E., near NW. cor. sec. 30, 5.0 mi. S. and 2.0 mi. E. from Canton, in SE. angle of crossroads, 4 ft. from fence; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1910 6 S 1923"

614.825

Canton, 4.0 mi. S. and 2.0 mi. E. from, opposite Eureka School, near NW. cor. sec. 19, T. 6 N., R. 5 E., 100 ft. S. of crossroads, on concrete sidewalk to house; chiseled square

616.37

[Continued in Canton quadrangle, line 6] ⁶³

2. From point in northwest quarter sec. 11, T. 22 N., R. 8 W., about 1.5 miles southeast of Liverpool along roads southwest and south 2.2 miles, thence generally east to point near northwest corner sec. 35, T. 22 N., R. 6 W. (by G. W. Moore in 1929)

Liverpool, about 1.5 mi. SE. of, in NW $\frac{1}{4}$ sec. 11, T. 22 N., R. 8 W., NE. of head of Quiver Lake, on highway along brow of hills on SE. side of bottom lands and slough, on land of O. A. Graham, 15 ft. E. of center line of wagon track, 50 ft. N. of private rd.; U. S. C. E. P. B. M. 42

484.733

cap on iron pipe

480.793

⁶³ This line crosses the southwest corner of Glasford quadrangle, but no bench marks were established along that portion of the line.

	Feet
T. 22 N., R. 8 W., near center of sec. 10, 5 ft. N. and 15 ft. W. from bend in rd. from SW. to S., 30 ft. NW. of bend in rd., 85 ft. N. of fisherman's cottage, in root on E. side of 15-in. hard-maple tree; copper nail and washer-----	451. 04
T. 22 N., R. 8 W., near N $\frac{1}{4}$ cor. sec. 15, 300 ft. S. of crossroads, on E. side of rd., in root on SW. side of 41-in. hard-maple tree; copper nail and washer-----	482. 23
T. 22 N., R. 8 W., near S $\frac{1}{4}$ cor. sec. 15, 23 ft. N. and 150 ft. E. from junction of E.-W. rd., 130 ft. E. of fence corner, outside fence, in concrete post; standard tablet stamped "4 M 1929"-----	472. 003
Reference mark, 22 ft. S. and 15 ft. E. from rd. junction, in fence, in root on E. side of 12-in. Osage-orange tree; copper nail and washer-----	475. 05
T. 22 N., R. 8 W., 0.09 mi. E. of S $\frac{1}{4}$ cor. sec. 14, 35 ft. N. of rd., 3 ft. N. and 14 ft. E. from fence corner, in cemetery, in root on S. side of 20-in. elm tree; copper nail and washer-----	488. 97
T. 22 N., R. 8 W., about 0.25 mi. E. of NW. cor. sec. 24, 25 ft. S. and 25 ft. E. from junction of T-rd. S., in root on N. side of 38-in. maple tree; copper nail and washer-----	489. 28
T. 22 N., R. 8 W., about 0.25 mi. W. of NE. cor. sec. 24, 30 ft. S. and 40 ft. W. from junction of T-rd. N., 4 ft. SW. of fence corner, in root on SE. side of 20-in. elm tree; copper nail and washer-----	496. 67
T. 22 N., R. 7 W., about 0.25 mi. W. of NE. cor. sec. 19, 2.8 mi. W. of Bishop, 1.4 mi. N. of Topeka, 100 ft. S. and 20 ft. E from junction of T-rd S., 68 ft. W. of SW. corner of Pleasant Row School, in concrete post; standard tablet stamped "5 M 1929"-----	494. 455
Reference mark, 25 ft. S. and 75 ft. E. from rd. junction, in root on N. side of 23-in. maple tree; copper nail and washer-----	495. 96
Bishop, 2.1 mi. W. of, near S $\frac{1}{4}$ cor. sec. 17, T. 22 N., R. 7 W., 30 ft. N. and 20 ft. E. from junction of T-rd. S., in root on S. side of 24-in. maple tree; copper nail and washer-----	501. 63
Bishop, 1.1 mi. W. of, near S $\frac{1}{4}$ cor. sec. 16, T. 22 N., R. 7 W., 55 ft. N. and 215 ft. W. from junction of T-rd. N., 28 ft. N. and 8.5 ft. W. from fence corner, in root on N. side of 19-in. locust tree; copper nail and washer-----	500. 04
Bishop, in W. angle of intersection of Chicago & Illinois Midland Ry., 120 ft. SW. of rd., 95 ft. NW. of tracks, in R. R. right-of-way, in concrete post; standard tablet stamped "6 M 1929"-----	500. 963
Reference mark, 110 ft. NW. of main track, 45 ft. SW. of rd., 14 ft. NW. of right-of-way fence, in root on NE. side of 12-in. black-walnut tree; copper nail and washer-----	500. 96
Bishop, 1.0 mi. SE. of, about 0.25 mi. N. of SE. cor. sec. 22, T. 22 N., R. 7 W., 15 ft. S. and 215 ft. W. from T-junction of N.-S. rd., in root on NE. side of 7-in. boxelder tree; copper nail and washer-----	495. 53
Bishop, 0.5 mi. S. and 1.3 mi. E. from, 0.25 mi. E. of center of sec. 23, T. 22 N., R. 7 W., 25 ft. S. of rd., at bend from E. to N., in root on NE. side of 19-in. Osage-orange tree, corner tree in hedge fence; copper nail and washer-----	494. 73
Bishop, 1.8 mi. E. of, about 0.25 mi. E. of SW. cor. sec. 13, T. 22 N., R. 7 W., 28 ft. W. of junction of T-rd. N., on top of N. head wall of concrete culvert; chiseled square-----	494. 98
Bishop, 2.5 mi. E. of, 1.7 mi. S. of Forest City, near NE. cor. sec. 24, T. 22 N., Rs. 6 and 7 W., 25 ft. S. and 223 ft. W. from crossroads, in NW. corner of yard of Union School No. 1, 3.5 ft. SE. of fence corner, in concrete post; standard tablet stamped "7 M 1929"-----	494. 698

	Feet
Reference mark, 23 ft. S. and 145 ft. W. from crossroads, in center of N. boundary fence of schoolyard, in root on S. side of 18-in. elm tree; copper nail and washer-----	494. 63
Forest City, 1.2 mi. S. of, near W $\frac{1}{4}$ cor. sec. 18, T. 22 N., R. 6 W., 25 ft. S. of E.-W. line fence, 25 ft. E. of rd., in root on NW. side of 19-in. elm tree; copper nail and washer-----	493. 90
Forest City, about 0.5 mi. S. of, about 0.28 mi. N. of SW. cor. sec. 7, T. 22 N., Rs. 6 and 7 W., 25 ft. N. of junction of rd. E., on SE. side of large bridge, on top of E. end of concrete retaining wall; chiseled square-----	487. 86
Forest City, 0.5 mi. S. and 0.7 mi. E. from, in SE $\frac{1}{4}$ sec. 7, T. 22 N., R. 6 W., at crossroads opening into fields, 20 ft. N. of rd., on top of S. abutment of W. stone parapet; chiseled square-----	490. 73
Forest City, 0.7 mi. S. and 1.2 mi. E. from, about 0.27 mi. E. of SW. cor. sec. 8, T. 22 N., R. 6 W., 48 ft. N. of rd., 50 ft. S. of barn of J. J. Weyhrick, 15 ft. N. and 50 ft. E. from barnyard gate, in root on S. side of 24-in cottonwood tree; copper nail and washer-----	490. 35
Forest City, 0.7 mi. S. and 2.0 mi. E. from, near NW. cor. sec. 16, T. 22 N., R. 6 W., 20 ft. S. and 200 ft. E. from crossroads, 180 ft. E. of fence corner, outside fence, in concrete post; standard tablet stamped "8 M 1929"-----	491. 008
Forest City, 0.7 mi. S. and 3.0 mi. E. from, near SW. cor. sec. 10, T. 22 N., R. 6 W., 25 ft. N. and 32 ft. E. from crossroads, in SW. corner of yard of Spaita School, 10 ft. N. and 7 ft. E. from fence corner, in root on S. side of 14-in. cottonwood tree; copper nail and washer-----	506. 05
T. 22 N., R. 6 W., 123 ft. S. of NW. cor. sec. 22, 123 ft. S. and 20 ft. W. from fence corner, on E. side of rd., in root on W. side of 22-in. cottonwood tree; copper nail and washer-----	500. 26
T. 22 N., R. 6 W., near probable cor. secs. 21, 22, 27, and 28, at offset crossroads, 39 ft. S. of junction of rd. W., 63 ft. S. of rd. E., 39 ft. S. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 23 F 1925"-----	504. 045
Reference mark, 28 ft. S. and 18 ft. W. from crossroads, in root on E. side of 24-in. maple tree; copper nail and washer-----	503. 61
T. 22 N., R. 6 W., near NW. cor. sec. 26, 40 ft. S. and 18 ft. E. from crossroads, 15 ft. S. of fence corner, in fence, in root on SW. side of 30-in maple tree; copper nail and washer-----	504. 46
T. 22 N., R. 6 W., near NE. cor. sec. 34, 45 ft. S. and 55 ft. W. from crossroads, 8 ft. N. and 45 ft. W. from fence corner, in root on NE. side of 30-in. cottonwood tree; copper nail and washer-----	502. 60
[Continued in Delavan quadrangle, line 3]	
3. From crossroads 0.7 mile south and 3 miles east from Forest City generally north along roads to point 0.8 mile northwest thence 2.5 miles north from Parkland (by G. W. Moore in 1929)	
Forest City, 0.2 mi. S. and 3.5 mi. E. from, near center of sec. 10, T. 22 N., R. 6 W., 15 ft. S. and 25 ft. W. from junction of E.-W. rd., 3 ft. N. and 15 ft. W. from fence corner, in root on SW. side of 12-in. Osage-orange tree; copper nail and washer (recovered in 1930)-----	509. 14

	Feet
Forest City, 0.3 mi. N. and 4.0 mi. E. from, 1.5 mi. E. thence 3.6 mi. S. from Manito, near NE. cor. sec. 10, T. 22 N., R. 6 W., 20 ft. S. and 20 ft. W. from junction of T-rd. W. and private rd. E., in concrete post; standard tablet stamped "P T Sta No 24 F 1925" (recovered in 1930)-----	514.500
Manito, 1.5 mi. E. thence 2.5 mi. S. from, near SE. cor. sec. 34, T. 23 N., R. 6 W., 20 ft. N. and 125 ft. W. from junction of T-rd. N., in root on E. side of 24-in. willow tree; copper nail and washer-----	490.04
Manito, 1.5 mi. E. thence 1.5 mi. S. from, near NE. cor. sec. 34, T. 23 N., R. 6 W., 85 ft. S. and 34 ft. W. from crossroads, 55 ft. S. and 3.5 ft. W. from fence corner, in root on E. side of 18-in. walnut tree; copper nail and washer-----	487.56
Manito, 1.5 mi. E. thence 0.5 mi. S. from, about 390 ft. S. of NE. cor. sec. 27, T. 23 N., R. 6 W., 25 ft. W. of rd., in root on E. side of multiple elm tree; copper nail and washer-----	489.48
Manito, 1.5 mi. E. of, 2.4 mi. S. of Parkland, near quarter corner between secs. 22 and 23, T. 23 N., R. 6 W., 20 ft. S. and 8 ft. W. from junction of T-rd. N., 20 ft. S. and 75 ft. E. from junction of T-rd. S., 3 ft. SE. of fence corner, in NW. corner of field, in concrete post; standard tablet stamped "P T Sta No 25 F 1925"-----	471.542
Parkland, 1.5 mi. S. of, about 330 ft. S. of W $\frac{1}{4}$ cor. sec. 14, T. 23 N., R. 6 W., 20 ft. E. of rd., outside fence, in root on SW. side of twin elm tree; copper nail and washer-----	468.75
Parkland, about 0.7 mi. SW. of, about 0.21 mi. N. of SW. cor. sec. 11, T. 23 N., R. 6 W., 8 ft. S. and 70 ft. W. from junction of private rd. W. to house, on W. side of drainage ditch, in root on E. side of 11-in. boxelder tree; copper nail and washer-----	467.57

[Line jogs into Delavan quadrangle, line 4]

Parkland, 0.3 mi. NW. of, near NW. cor. sec. 11, T. 23 N., R. 6 W., 83 ft. E. of N.-S. line fence, 20 ft. S. and 55 ft. E. from junction of rd. N., in root on NE. side of 14-in. Osage-orange tree used as telephone pole; copper nail and washer-----	484.11
Parkland, 0.3 mi. NW. thence 1.0 mi. N. from, near NW. cor. sec. 2, T. 23 N., R. 6 W., 55 ft. E. of crossroads, at E. abutment of small highway bridge, on top of S. parapet; chiseled square-----	461.09
Parkland, 0.3 mi. NW. thence 2.0 mi. N. from, near NE. cor. sec. 34, T. 24 N., R. 6 W., 170 ft. S. and 25 ft. W. from junction of T-rd. W., 20 ft. N. of private rd. to barn, in yard, in root on NE. side of twin elm tree; copper nail and washer-----	502.34

[Continued in Glasford quadrangle, line 7]

4. From road junction near south quarter corner sec. 15, T. 22 N., R. 8 W., generally south along roads to point 0.2 mile north and 2.2 miles west from Poplar City (by G. W. Moore in 1928)-----	461.94
T. 22 N., R. 8 W., near W $\frac{1}{4}$ cor. sec. 22, 0.8 mi. NW. thence 1.0 mi. N. from Eckard, 65 ft. N. and 32 ft. E. from junction of T-rd. W., 45 ft. N. and 12 ft. E. from fence corner, in root on NW. side of 20-in. pine tree; copper nail and washer-----	477.34
Eckard, 0.8 mi. NW. of, about 160 ft. N. of E $\frac{1}{4}$ cor. sec. 28, T. 22 N., R. 8 W., 160 ft. N. and 20 ft. W. from junction of T-rd. E., in SE. corner of yard, in root on SE. side of 30-in. maple tree; copper nail and washer-----	477.34

	Feet
Eckard, 50 ft. S. and 50 ft. E. from crossing of Chicago & Illinois Midland Ry., about 415 ft. N. and 50 ft. E. from crossroads and S $\frac{1}{4}$ cor. sec. 27, T. 22 N., R. 8 W., in right-of-way, in concrete post; standard tablet stamped "9 M 1929"-----	474. 123
Reference mark, 365 ft. N. of quarter corner, 100 ft. S. and 18 ft. W. from R. R. crossing, in root on SE. side of 9-in. hickory tree; copper nail and washer-----	475. 23
Eckard, 0.6 mi. S. of, near center of sec. 34, T. 22 N., R. 8 W., 55 ft. N. and 20 ft. W. from junction of T-rd. E., in root on E. side of 15-in. oak tree; copper nail and washer-----	502. 55
Eckard, 1.1 mi. S. of, near N $\frac{1}{4}$ cor. sec. 3, T. 21 N., R. 8 W., 15 ft. S. and 35 ft. E. from junction of T-rd. N., in root on NW. side of 27-in. maple tree; copper nail and washer-----	490. 46
Eckard, 1.7 mi. S. and 0.3 mi. E. from, 4.4 mi. E. of Havana, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 3, T. 21 N., R. 8 W., 0.2 mi. W. of junction of T-rd. S., 315 ft. E. of T-rd. N., 85 ft. E. of private crossroads of Fisk farm, on top of W. end of N. head wall of concrete culvert; chiseled square-----	495. 26
Eckard, 2.2 mi. S. and 0.5 mi. E. from, 3.0 mi. N. and 2.0 mi. W. from Poplar City, near SE. cor. sec. 3, T. 21 N., R. 8 W., 150 ft. N. and 24 ft. W. from crossroads, 133 ft. N. of fence corner, outside fence, in concrete post; standard tablet stamped "10 M 1929"-----	507. 194
Reference mark, 75 ft. N. and 29 ft. E. from crossroads, 46 ft. N. and 5 ft. E. from fence corner, in root on W. side of 15-in. chestnut tree; copper nail and washer-----	505. 82
Poplar City, 2.0 mi. N. and 2.0 mi. W. from, near SW. cor. sec. 11, T. 21 N., R. 8 W., 20 ft. N. and 20 ft. E. from crossroads, in root on E. side of 5-in. hickory tree; copper nail and washer-----	521. 69
Poplar City, 1.0 mi. N. and 2.1 mi. W. from, 600 ft. W. of SE. cor. sec. 15, T. 21 N., R. 8 W., 600 ft. W. of rd. junction, 710 ft. E. of bend in rd. from W. to S., 15 ft. N. of rd., in fence, 35 ft. N. of E.-W. line fence, in root on SE. side of 32-in. oak tree; copper nail and washer-----	498. 69
Poplar City, 0.3 mi. N. and 2.2 mi. W. from, in SE $\frac{1}{4}$ sec. 22, T. 21 N., R. 8 W., 200 ft. N. and 26 ft. E. from junction of T-rd E., 150 ft. N. of fence corner, inside fence, in concrete post; standard tablet stamped "11 M 1929"-----	502. 004
Reference mark, 75 ft. N. and 44 ft. E. from rd. junction, 50 ft. N. and 18 ft. E. from fence corner, in root on E. side of 16-in. oak tree; copper nail and washer-----	501. 46

[Continued in Petersburg quadrangle, line 8]

5. From point 1.8 miles north and 1 mile east from Teheran along roads north 0.2 mile, thence east to point 3.6 miles north and 2.9 miles west from Mason City (by G. W. Moore in 1929)

[Continued from Petersburg quadrangle, line 9]

Teheran, 2.0 mi. N. and 1.0 mi. E. from, 0.05 mi. S. of center of sec. 21, T. 21 N., R. 6 W., 265 ft. S. and 22 ft. E. from junction of E.-W. rd., on E. side of ditch, in root on S. side of 26-in. willow tree; copper nail and washer-----	517. 18
Teheran, 2.0 mi. N. and 1.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 21, T. 21 N., R. 6 W., 42 ft. N. and 20 ft. W. from junction of T-rd. N., 30 ft. W. of line fence, 22 ft. N. of fence corner, in root on SE. side of 27-in. Osage-orange tree; copper nail and washer-----	524. 94

Teheran, 2.0 mi. N. and 2.3 mi. E. from, 3.6 mi. N. thence 3.2 mi. W. from Mason City, about 0.26 mi. E. of center of sec. 22, T. 21 N., R. 6 W., 53 ft. E. of N.-S. line fence, 200 ft. W. of farmhouse, 20 ft. N. of rd., in fence, in root on SW. side of 11-in. walnut tree; copper nail and washer-----

Feet
528.88

[Continued in Delavan quadrangle, line 2]

6. From point 0.2 mile south and 4.1 miles east from Forest City along roads west and north 0.6 mile to crossroads 3.5 miles south and 1.5 miles east from Manito (by S. R. Archer in 1930)

[Continued from Delavan quadrangle, line 6]

Forest City, 0.2 mi. S. and 4.0 mi. E. from, 1.5 mi. E. thence 4.1 mi. S. from Manito, near W $\frac{1}{4}$ cor. sec. 11, T. 22 N., R. 6 W., 20 ft. S. and 25 ft. E. from crossroads, in SE. side of trunk of 8-in. hedge tree; copper nail and washer-----

505.49

MAQUON QUADRANGLE

[Latitude 40°45'-41°00'; longitude 90°00'-90°15']

KNOX COUNTY

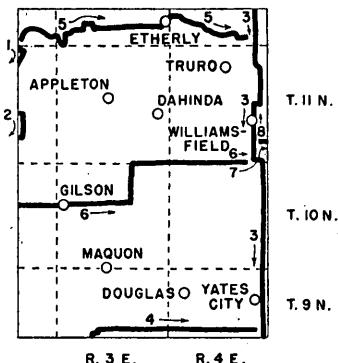


FIGURE 128.—Lines of leveling in Maquon quadrangle.

1. Along roads east and southwest about 1 mile in sec. 2, T. 11 N., R. 2 E. (by G. F. Williams in 1924)

[A jog from Galesburg quadrangle, line 6]

T. 11 N., R. 2 E., 20 ft. E. of N. cor. secs. 2 and 3, 20 ft. E. of junction of rd. N., at junction of T-rd. S., in corner of hedge fence, in concrete post; standard tablet stamped "Prim Trav Sta No 97 K 1924 W 36" (recovered in 1927)

Feet
806.045

T. 11 N., R. 2 E., 0.17 mi. W. of center of NW 1/4 sec. 2, on W. end of N. concrete head wall of culvert; chiseled square

794.35

T. 11 N., R. 2 E., near center of NW 1/4 sec. 2, in SE. angle of cross-roads, in fence line, in root on NW. side of corner white-oak tree; copper nail and washer

790.91

[Continued in Galesburg quadrangle, line 6]

2. From point 1.2 miles north and 1.8 miles east from Knoxville east, south, and west along roads to point 1.8 miles east of Knoxville (by G. F. Williams in 1924)

[A jog from Galesburg quadrangle, line 6]

Knoxville, 2.0 mi. E. thence 1.0 mi. N. from, near center of SW 1/4 sec. 23, T. 11 N., R. 2 E., 0.25 mi. S. of T-rd. W., on W. side of rd., 3 ft. W. of fence line, in root on E. side of 30-in. maple tree; copper nail and washer

724.90

Knoxville, 2.0 mi. E. of, near center of SW 1/4 sec. 26, T. 11 N., R. 2 E., in NW. corner of junction of E.-W. rd., on top of W. head wall of concrete culvert under rd. N.; chiseled square

752.00

[Continued in Galesburg quadrangle, line 6]

3. From point 2.8 miles north and 1.5 miles east from Truro generally south along roads to point 3.5 miles north of Farmington (by H. S. Senseney in 1927)

[Continued from Galva quadrangle, line 4]

Truro, 2.5 mi. N. and 1.5 mi. E. from, at Center Prairie Church and School, near center of sec. 26, T. 12 N., R. 4 E., in SE. corner of crossroads, 87 ft. S. of rd. E., 37 ft. E. of N.-S. rd., in NW. corner of schoolyard, 48 ft. N. and 32 ft. W. from NW. corner of schoolhouse, 2 ft. E. of iron fence, in concrete post; standard tablet stamped "Prim Trav Sta No 117 K 1924"-----

Reference mark, 50 ft. S. of tablet, in root of tree; copper nail and washer-----

Truro, 1.5 mi. N. and 1.5 mi. E. from, near center of sec. 35, T. 12 N., R. 4 E., 105 ft. S. and 45 ft. E. from crossroads, in root of tree; copper nail and washer-----

Truro, 0.5 mi. N. and 1.5 mi. E. from, near center of sec. 2, T. 11 N., R. 4 E., near NW. corner of junction of T-rd. W., on SE. wing wall of bridge; chiseled square⁶⁴-----

Truro, 0.5 mi. S. and 1.7 mi. E. from, 2.0 mi. N. and 0.2 mi. E. from Williamsfield, about 0.25 mi. E. of center of sec. 11, T. 11 N., R. 4 E., 40 ft. N. of center line of T-rd. E., 22 ft. E. of center line of N.-S. rd., in corner of wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 118 K 1924"-----

Reference mark, 125 ft. N. of tablet, in root of tree; copper nail and washer-----

Williamsfield, 1.3 mi. N. and 0.2 mi. E. from, in NE $\frac{1}{4}$ sec. 14, T. 11 N., R. 4 E., 350 ft. S. and 75 ft. W. from S. end of bridge over Spoon River, on SE. corner of foundation of razed house; chiseled square-----

Williamsfield, 0.6 mi. N. of, near S $\frac{1}{4}$ cor. sec. 14, T. 11 N., R. 4 E., on N. side of rd., in line with T-rd. S., 1.7 ft. S. of telephone pole; cap on 1-in. iron pipe-----

Williamsfield, 0.4 mi. S. of, near N $\frac{1}{4}$ cor. sec. 26, T. 11 N., R. 4 E., in SE. corner of crossroads, on W. side of fence, 4.8 ft. S. of corner; cap on 1-in. iron pipe-----

Williamsfield, 1.4 mi. S. of, near N $\frac{1}{4}$ cor. sec. 35, T. 11 N., R. 4 E., 30 ft. S. and 25 ft. W. from junction of T-rd. W., in corner of wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 119 K 1924"⁶⁵-----

Reference mark, 310 ft. S. of tablet, on W. side of rd., on drain trap; chiseled square-----

Williamsfield, 2.4 mi. S. of, near N $\frac{1}{4}$ cor. sec. 2, T. 10 N., R. 4 E., on S. side of rd., in line with rd. N., 1.4 ft. N. of fence; cap on 1-in. iron pipe (recovered in 1934)-----

Williamsfield, 2.4 mi. S. thence 0.5 mi. E. from, near SE. cor. sec. 35, T. 11 N., R. 4 E., 70 ft. W. of junction of T-rd. S., on N. side of rd., in root of tree; copper nail and washer-----

Feet
722. 663

725. 55

724. 58

618. 35

647. 674

645. 36

602. 36

698. 85

707. 11

713. 267

712. 01

703. 18

710. 56

⁶⁴ This bench mark was established in 1933 to replace a chiseled square on the northeast corner of a bridge. It is 289 ft. N. 25°45' W. from and 1.47 ft. higher than the old mark.

⁶⁵ In 1934 this mark was reported destroyed. It was replaced by the U. S. C. & G. S. and State Survey standard disk with elevation of 713.856 ft., described in line 7.

Williamsfield, 5.4 mi. S. and 0.5 mi. E. from, 0.5 mi. E. thence 4.5 mi. N. from Yates City, near SE. cor. sec. 14, T. 10 N., R. 4 E., 65 ft. N. and 25 ft. W. from crossroads, 500 ft. NW. of Ford School, in concrete post; standard tablet stamped "Prim Trav Sta No 120 K 1924"-----	Feet 682. 616
Reference mark, 180 ft. S. of tablet, on E. side of rd., in root of tree; copper nail and washer-----	679. 88
Yates City, 0.5 mi. E. thence 3.5 mi. N. from, 85 ft. S. of NW. cor. sec. 25, T. 10 N., R. 4 E., on E. side of rd., in root of tree; copper nail and washer-----	671. 82
Yates City, 0.5 mi. E. thence 2.5 mi. N. from, near NW. cor. sec. 36, T. 10 N., R. 4 E., at SE. corner of T-rd. E., on concrete base of fence post; chiseled square-----	671. 24
Yates City, 0.5 mi. E. thence 1.0 mi. N. from, near W $\frac{1}{4}$ cor. sec. 1, T. 9 N., R. 4 E., in NE. angle of crossroads, 95 ft. SW. of SW. corner of schoolhouse, in concrete post; standard tablet stamped "Prim Trav Sta No 121 K 1924"-----	626. 648
Reference mark, 480 ft. N. of tablet, on W. side of rd., on culvert; chiseled square-----	621. 16
Yates City, 0.5 mi. E. of, near W $\frac{1}{4}$ cor. sec. 12, T. 9 N., R. 4 E., in SE corner of crossroads, on culvert; chiseled square ⁹⁹ -----	680. 22
Yates City, 0.5 mi. E. thence 1.5 mi. S. from, 4.0 mi. N. of Farmington, near NW. cor. sec. 24, T. 9 N., R. 4 E., in SE. corner of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 22 1910"-----	645. 174

[Continued in Canton quadrangle, line 8]

4. From point in sec. 20, T. 9 N., R. 3 E., along roads northeast about 0.8 mile, thence east to crossroads 1.5 miles south and 0.5 mile east from Yates City (by H. S. Senseney in 1927)

[Continued from Canton quadrangle, line 9]

T. 9 N., R. 3 E., 380 ft. N. of W $\frac{1}{4}$ cor. sec. 21, 3.5 mi. S. and 1.0 mi. W. from Maquon, on E. side of rd., 32 ft. SW. of gate, in concrete post; standard tablet stamped "6 S 1927"-----	594. 041
Reference mark, 65 ft. W. of tablet, on S. side of rd., on culvert; chiseled square-----	595. 39
Maquon, 3.0 mi. S. and 0.8 mi. W. from, about 0.25 mi. E. of SW. cor. sec. 16, T. 9 N., R. 3 E., 120 ft. E. of rd. junction, on N. side of rd., in root of tree; copper nail and washer-----	622. 45
Maquon, 3.0 mi. S. of, 3.0 mi. N. of Rapatee, near SW. cor. sec. 15, T. 9 N., R. 3 E., in NE. corner of crossroads, in root of tree; copper nail and washer-----	632. 45
Maquon, 3.0 mi. S. and 1.0 mi. E. from, 40 ft. SW. of NE. cor. sec. 22, T. 9 N., R. 3 E., in SW. angle of crossroads, near fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 23 1910"-----	629. 227
Reference mark, 0.35 mi. E. of iron post, on N. side of rd., 16 ft. S. of gate to house; SW. corner of concrete step-----	623. 07
Maquon, 3.0 mi. S. and 2.0 mi. E. from, near SE. cor. sec. 14, T. 9 N., R. 3 E., at fence in front of Foster School, on SW. corner of concrete step; chiseled square-----	639. 61

⁹⁹ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 44 1935," elevation 672.702 ft.

	Feet
Maquon, 3.0 mi. S. and 3.0 mi. E. from, near SW. cor. sec. 18, T. 9 N., R. 4 E., 100 ft. E. of crossroads, on N. side of rd., in root of tree; copper nail and washer-----	671.13
Maquon, 3.0 mi. S. and 4.0 mi. E. from, 2.0 mi. S. of Douglas, 1.5 mi. S. and 3.5 mi. W. from Yates City, in NE. corner of crossroads, in concrete post; standard tablet stamped "7 S 1927"-----	651.888
Reference mark, 335 ft. E. of tablet, on N. side of rd., in root of tree; copper nail and washer-----	653.89
Yates City, 1.5 mi. S. and 2.5 mi. W. from, near NE. cor. sec. 20, T. 9 N., R. 4 E., in SW. corner of crossroads, at fence corner, on concrete wall; chiseled square-----	663.75
Yates City, 1.5 mi. S. and 1.0 mi. W. from, near N $\frac{1}{4}$ cor. sec. 22, T. 9 N., R. 4 E., in SW. corner of crossroads, 2.7 ft. W. of fence corner; cap on 1-in. iron pipe-----	689.02
Yates City, 1.5 mi. S. of, near S $\frac{1}{4}$ cor. sec. 14, T. 9 N., R. 4 E., in NW. corner of crossroads, on culvert; chiseled square-----	643.92
5. From northwest corner sec. 2, T. 11 N., R. 2 E., generally east along roads to crossroads 1.5 miles north and 1.5 miles east from Truro (by H. S. Senseney in 1927)	
T. 12 N., R. 2 E., near center of sec. 35, at Red Oak School, on S. side of rd., on base of pump; chiseled square-----	789.92
T. 12 N., R. 2 E., in SW $\frac{1}{4}$ sec. 36, 0.8 mi. E. of Red Oak School, on S. side of rd., at gate, 3.2 ft. W. of fence S.; cap on 1-in. iron pipe-----	777.03
T. 12 N., R. 2 E., in SE $\frac{1}{4}$ sec. 36, at bridge over North Creek, in NE. pier; top of bolt-----	660.94
T. 12 N., R. 3 E., about 0.25 mi. S. and 200 ft. E. from N $\frac{1}{4}$ cor. sec. 31, on N. side of rd., in root of tree; nail-----	789.68
T. 12 N., R. 3 E., near N $\frac{1}{4}$ cor. sec. 32, in SW. corner of T-junction of N-S. rd., on culvert; chiseled square-----	788.58
T. 12 N., R. 3 E., about 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 29, 30 ft. S. and 30 ft. E. from junction of T-rd. E., 23 ft. NW. of NW. corner of Westfall School, in concrete post; standard tablet stamped "Prim Trav Sta No 114 K 1924"-----	790.888
T. 12 N., R. 3 E., near S $\frac{1}{4}$ cor. sec. 28, in NE. corner of crossroads, 25 ft. E. of N-S. fence, on S. side of E-W. fence; cap on 1-in. iron pipe-----	798.29
T. 12 N., R. 3 E., near cor. secs. 27, 28, 33, and 34, 50 ft. N. of junction of T-rd. S., in root of tree; copper nail and washer-----	787.60
T. 12 N., R. 3 E., near NE. cor. sec. 35, 1.0 mi. W. of Etherly, 30 ft. S. and 30 ft. W. from junction of T-rd. S., in corner of hedge fence, in concrete post; standard tablet stamped "Prim Trav Sta No 115 K 1924"-----	764.760
Etherly, 0.5 mi. W. of, at Hope School, near quarter corner between secs. 25 and 36, T. 12 N., R. 3 E., on SW. corner of base of pump; chiseled square-----	779.93
Etherly, 3.0 mi. S. of Victoria, near NW. cor. sec. 31, T. 12 N., R. 4 E., 40 ft. S. of T-junction of N-S. rd., on E. side of rd., in root of tree; copper nail and washer-----	783.51
Etherly, 0.5 mi. N. of, near E $\frac{1}{4}$ cor. sec. 25, T. 12 N., R. 3 E., 120 ft. N. of crossroads, on W. side of rd., in root of tree; copper nail and washer-----	795.28
T. 12 N., R. 4 E., in SE $\frac{1}{4}$ sec. 30, in NE. angle of rd. junction, in root of tree; copper nail and washer-----	775.79

	Feet
T. 12 N., R. 4 E., in SW $\frac{1}{4}$ sec. 29, 35 ft. W. of bridge over West Creek, on N. side of rd., in root of tree; copper nail and washer-----	665.47
T. 12 N., R. 4 E., in SE $\frac{1}{4}$ sec. 29, in NW. corner of junction of T-rd. N., on culvert; chiseled square-----	757.81
T. 12 N., R. 4 E., in NW $\frac{1}{4}$ sec. 33, 1.9 mi. N. and 0.8 mi. W. from Truro, about 3,000 ft. S. of Salem School, on E. side of N.-S. rd., in line with rd. NW., at fence in front of residence of Oscar Hamerlund, 10 ft. N. of front gate, in concrete post; standard tablet stamped "Prim Trav Sta No 116 K 1924"-----	755.495
Reference mark, 29.8 ft. S. of tablet, in root of tree; copper nail and washer-----	756.85
Truro, 1.8 mi. N. and 0.5 mi. E. from, about 0.25 mi. N. of center of sec. 34, T. 12 N., R. 4 E., 20 ft. S. of junction of N.-S. rd., on E. side of rd., in root of tree; copper nail and washer-----	726.97
6. From point 3.3 miles south and 1.8 miles east from Knoxville alternately east and north along roads to road junction 24 miles south of Williamsfield (by H. S. Senseney in 1927)	
[Connects with line 3 in Galesburg quadrangle]	
Knoxville, 3.3 mi. S. and 2.0 mi. E. from, 2.3 mi. W. of Gilson, 0.25 mi. E. of SW. cor. sec. 11, T. 10 N., R. 2 E., 60 ft. N. of junction of T-rd. S., in root of tree; copper nail and washer-----	689.37
Gilson, 0.8 mi. W. of, 0.25 mi. W. of NE. cor. sec. 13, T. 10 N., R. 2 E., in SE. corner of junction of T-rd. S., in root of tree; copper nail and washer-----	688.52
Gilson, 0.4 mi. W. of, about 5 mi. NW. of Maquon, about 700 ft. E. of NW. cor. sec. 18, T. 10 N., R. 3 E., 50 ft. W. of intersection of State Highway 8, on S. side of rd., in concrete post; standard tablet stamped "1 S 1927"-----	688.602
Reference mark, 28 ft. E. of tablet, on culvert; chiseled square-----	689.02
Gilson, 1.0 mi. E. of, near S $\frac{1}{4}$ cor. sec. 8, T. 10 N., R. 3 E., in NE. corner of crossroads, in root of tree; copper nail and washer-----	652.24
Gilson, 2.0 mi. E. of, near N $\frac{1}{4}$ cor. sec. 16, T. 10 N., R. 3 E., in SE. angle of junction of T-rd. S., in root of tree; copper nail and washer-----	686.76
Gilson, 2.5 mi. E. of, 4.0 mi. N. of Maquon, 5.5 mi. S. of Appleton, near N. cor. secs. 15 and 16, T. 10 N., R. 3 E., on S. side of rd., in line with T-rd. N., in concrete post; standard tablet stamped "2 S 1927"-----	670.867
Reference mark, 32 ft. SW. of tablet, in root of tree; copper nail and washer-----	672.54
Gilson, 3.0 mi. E. of, near N $\frac{1}{4}$ cor. sec. 15, T. 10 N., R. 3 E., in SW. angle of junction of T-rd. S., in root of tree; copper nail and washer-----	675.58
Gilson, 3.5 mi. E. of, 30 ft. S. and 30 ft. W. from NE. cor. sec. 15, T. 10 N., R. 3 E., in root of tree; copper nail and washer-----	678.51
Gilson, 3.5 mi. E. thence 0.9 mi. N. from, 790 ft. S. of N. cor. secs. 10 and 11, T. 10 N., R. 3 E., at gate to Union Church, on S. end of step; chiseled square-----	695.22
Gilson, 3.5 mi. E. thence 2.0 mi. N. from, 2.5 mi. S. and 1.5 mi. W. from Dahinda, near NW. cor. sec. 2, T. 10 N., R. 3 E., in SE. angle of junction of E.-W. rd., at NW. corner of Sherman School, in concrete post; standard tablet stamped "3 S 1927"-----	704.733
Reference mark, 48 ft. S. and 11 ft. E. from tablet, on NW. corner of base of pump; chiseled square-----	706.11

	Feet
Dahinda, 2.5 mi. S. and 0.5 mi. W. from, near NE. cor. sec. 2, T. 10 N., R. 3 E., on S. side of rd., 180 ft. E. of fence line N., in root of hedge; copper nail and washer-----	703.41
Dahinda, 2.5 mi. S. and 0.5 mi. E. from, near NE. cor. sec. 1, T. 10 N., R. 3 E., on E. side of rd., at rd. fork, on W. side of Spoon River, in root of tree; copper nail and washer-----	583.83
Dahinda, 2.5 mi. S. and 0.6 mi. E. from, near NW. cor. sec. 6, T. 10 N., R. 4 E., at SE. corner of bridge over Spoon River, on wing wall; chiseled square-----	574.15
Dahinda, 2.5 mi. S. and 1.5 mi. E. from, 2.4 mi. S. thence 3.5 mi. W. from Williamsfield, near SE. cor. sec. 31, T. 11 N., R. 4 E., on N. side of rd., 31 ft. W. of hedge N., in concrete post; standard tablet stamped "4 S 1927" (recovered in 1934)-----	694.338
Reference mark, 60 ft. S. of tablet, 3.4 ft. E. of fence corner; cap on 1-in. iron pipe-----	694.59
Williamsfield, 2.4 mi. S. thence 2.5 mi. W. from, near N. cor. secs. 4 and 5, T. 10 N., R. 4 E., in SE corner of junction of T-rd. S., on culvert; chiseled square (recovered in 1934)-----	690.77
Williamsfield, 2.4 mi. S. thence 1.5 mi. W. from, near NW. cor. sec. 3, T. 10 N., R. 4 E., 175 ft. S. of junction of T-rd. S., on E. side of rd., in root on NW. side of 50-in. cottonwood tree; copper nail and washer (recovered in 1934)-----	728.19
7. From point 2.4 miles south and 3.5 miles west from Williamsfield alternately east and north along roads to point 1.5 miles south and 3.8 miles west from Laura (by C. G. Dickinson in 1934)	
Williamsfield, 2.4 mi. S. thence 0.5 mi. W. from, near NW. cor. sec. 2, T. 10 N., R. 4 E., 50 ft. S. and 15 ft. E. from junction of T-rd. S., in root on NW. side of 12-in. black-thorn tree; spike-----	714.66
Williamsfield, 1.9 mi. S. of, near center of sec. 35, T. 11 N., R. 4 E., 5 ft. N. and 25 ft. W. from junction of T-rd. E., in fence line, in root on NE. side of 20-in. walnut tree; spike-----	714.30
Williamsfield, 1.4 mi. S. of, near S $\frac{1}{4}$ cor. sec. 26, T. 11 N., R. 4 E., 90 ft. N. and 40 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk (recovered in 1936) ^{o7} -----	713.856
Williamsfield, 1.4 mi. S. thence 0.5 mi. E. from, 1.5 mi. S. thence 4.0 mi. W. from Laura, near N. cor. secs. 35 and 36, T. 11 N., R. 4 E., 38 ft. S. of center line of highway, in line with fence N., 30 ft. W. of fence S., in concrete post; U. S. C. & G. S. and State Survey standard disk-----	709.344
[Continued in Elmwood quadrangle, line 8]	
8. North along road 1.4 miles to Williamsfield (by W. C. Elledge in 1936)	
Williamsfield, 0.4 mi. along State Highway 180 S. of, near S $\frac{1}{4}$ cor. sec. 23, T. 11 N., R. 4 E., 20 ft. N. and 30 ft. E. from crossroads, on N. head wall of concrete culvert; chiseled square-----	708.22
U. S. C. & G. S. standard disk stamped "F 31 1934"-----	710.651

^{o7} This bench mark replaces the standard tablet stamped "Prim Trav Sta No 119 K 1924," described in line 3.

MASON CITY QUADRANGLE

[Latitude $40^{\circ}00'$ – $40^{\circ}15'$; longitude $89^{\circ}30'$ – $89^{\circ}45'$]

LOGAN, MASON, AND MENARD COUNTIES

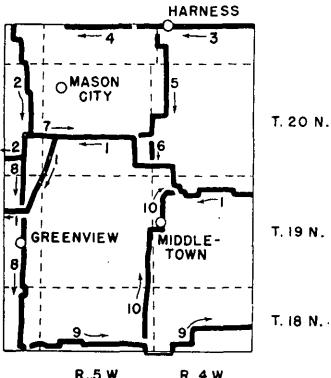


FIGURE 129.—Lines of leveling in Mason City quadrangle.

1. From point 0.3 mile west of north quarter corner sec. 12, T. 19 N., R. 4 W., alternately west and north along roads to point on Chicago & Alton Railroad 2.5 miles southwest of Mason City, thence southwest 4.2 miles, thence west along road to point 1.5 miles north and 0.8 mile west from Greenview (by P. E. Fletcher in 1908)

[Continued from Lincoln quadrangle, line 1]

T. 19 N., R. 4 W., 0.25 mi. E. of SW. cor. sec. 4, 1.5 mi. N. and 1.8 mi. E. from Middletown, 30 ft. NW. of junction of T-rd. N., in concrete post; aluminum tablet (destroyed in 1932)⁵⁸-----

Middletown, 3.0 mi. N. of, 500 ft. W. of center of sec. 31, T. 20 N., R. 4 W., in SW. angle of junction of T-rd. S., in concrete post; aluminum tablet stamped "T T 14 S 1928" (recovered by U. S. C. & G. S. in 1935)-----

Middletown, 4.5 mi. N. and 1.5 mi. W. from, 2.5 mi. S. and 4.0 mi. E. from Mason City, near NE. cor. sec. 26, T. 20 N., R. 5 W., in SW. angle of junction of T-rd. W., in concrete post; aluminum tablet stamped "T T 13 S 1928" (recovered in 1930)-----

Mason City, 2.5 mi. S. and 1.0 mi. E. from, near NE. cor. sec. 29, T. 20 N., R. 5 W., in concrete post; aluminum tablet (recovered in 1930)-----

Mason City, 2.5 mi. SW. of along C. & A. R. R., about 0.1 mi. E. of N $\frac{1}{4}$ cor. sec. 30, T. 20 N., R. 5 W., at R. R. bridge D-1742; top of E. side of S. retaining wall-----

Feet
554.472

523.834

513.119

546.088

530.22

⁵⁸The standard tablet stamped "Prim Trav Sta No 150 F 1925," described in line 10, is about 2 ft. from this position.

Mason City, 6.7 mi. SW. of, 1.5 mi. NE. of Greenview, about 0.3 mi. E. of W. cor. secs. 12 and 13, T. 19 N., R. 6 W., 10 ft. W. of intersection of section line and R. R., in concrete post; aluminum tablet (recovered in 1932) -----

Feet
511.043

[Continued in Petersburg quadrangle, line 4]

2. From point 3.4 miles north and 2.5 miles west from Mason City along roads generally south to point 3.8 miles south and 2.7 miles west from Mason City (by G. W. Moore in 1929)

[Continued from Delavan quadrangle, line 2]

Mason City, 2.6 mi. N. and 2.5 mi. W. from, near center of sec. 26, T. 21 N., R. 6 W., 20 ft. S. and 40 ft. W. from junction of E.-W. rd., in NE. corner of yard, in root on NE. side of 16-in. hackberry tree; copper nail and washer-----

572.52

Mason City, 2.1 mi. N. and 2.0 mi. W. from, across rd. from Pleasant View School, near SW. cor. sec. 25, T. 21 N., R. 6 W., 20 ft. N. and 25 ft. E. from junction of T-rd. E., inside fence, in root on SW. side of 30-in. maple tree; copper nail and washer-----

580.27

Mason City, 1.2 mi. N. and 2.0 mi. W. from, 660 ft. N. of SE. cor. sec. 35, T. 21 N., R. 6 W., 660 ft. N. and 15 ft. W. from bend in rd. from S. to E., in row of trees, in root on E. side of 18-in. maple tree, second tree from S. end; copper nail and washer-----

583.68

Mason City, 0.5 mi. N. and 1.8 mi. W. from, about 0.25 mi. E. of W. cor. secs. 1 and 12, T. 20 N., R. 6 W., 30 ft. N. and 30 ft. W. from crossroads, in SE. corner of yard, in concrete post; standard tablet stamped "P T Sta No 20 F 1925"-----

582.050

Reference mark, 50 ft. S. and 30 ft. E. from crossroads, in root on W. side of 7-in. Osage-orange tree; copper nail and washer-----

580.73

Mason City, 0.2 mi. S. and 1.5 mi. W. from, 0.08 mi. W. of center of S½ sec. 12, T. 20 N., R. 6 W., 0.17 mi. E. of T-rd. N., 25 ft. N. and 415 ft. W. from junction of T-rd. S., in root on SE. side of 25-in. Osage-orange tree; copper nail and washer-----

581.98

Mason City, 1.0 mi. S. and 1.5 mi. W. from, near center of sec. 13, T. 20 N., R. 6 W., 210 ft. E. of junction of T-rd. E., 16 ft. S. of E.-W. line fence, on top of W. end of S. head wall of concrete culvert under State Highway 24; chiseled square-----

573.46

Mason City, 1.5 mi. S. and 1.5 mi. W. from, near quarter corner between secs. 13 and 24, T. 20 N., R. 6 W., 19 ft. W. of crossroads, on top of S. head wall of small concrete culvert; chiseled square-----

568.54

Mason City, 2.5 mi. S. and 1.5 mi. W. from, about 500 ft. W. of probable quarter corner between secs. 24 and 25, T. 20 N., R. 6 W., 19 ft. S. and 500 ft. W. from junction of E.-W. rd., in root on N. side of 24-in. hackberry tree; copper nail and washer (recovered in 1930)-----

573.00

Mason City, 2.5 mi. S. and 2.0 mi. W. from, near NE. cor. sec. 26, T. 20 N., R. 6 W., 65 ft. S. of junction of T-rd. S., on top of N. end of W. head wall of large concrete culvert under State Highway 24; chiseled square (recovered in 1930)-----

572.28

Mason City, 3.2 mi. S. and 2.0 mi. W. from, 0.3 mi. N. of SE. cor. sec. 26, T. 20 N., R. 6 W., on State Highway 24, at concrete bridge over Sleepy Hollow, on top of W. parapet of N. abutment; chiseled square-----

528.02

	Feet
Mason City, 3.8 mi. S. and 2.0 mi. W. from, 4.2 mi. N. of Greenview, in NE $\frac{1}{4}$ sec. 35, T. 20 N., R. 6 W., 20 ft. N. and 30 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "P T Sta No 19 F 1925" (recovered in 1932)-----	545. 739
Reference mark, 20 ft. W. of State Highway 24, on top of E. end of S. head wall of concrete culvert under rd. W.; chiseled square (recovered in 1932)-----	544. 85
Mason City, 3.8 mi. S. and 2.7 mi. W. from, near center of NW $\frac{1}{4}$ sec. 35, T. 20 N., R. 6 W., 7 ft. W. of N-S. line fence, on top of E. end of S. head wall of concrete culvert; chiseled square-----	509. 13

[Continued from Petersburg quadrangle, line 10]

3. From point 3.2 miles west of Hartsburg west along road to crossroads 1.5 miles west of Harness (by S. R. Archer in 1930)

[Connects with line 5 in Lincoln quadrangle]

Hartsburg, 4.5 mi. W. of, 0.15 mi. S. of N. cor. secs. 26 and 27, T. 21 N., R. 4 W., 800 ft. S. of crossroads, on top of S. end of E. head wall of concrete culvert; chiseled square-----	556. 14
Hartsburg, 5.5 mi. W. of, 2.5 mi. E. of Harness, 60 ft. S. and 60 ft. E. from probable cor. secs. 21, 22, 27, and 28, T. 21 N., R. 4 W., 12 ft. S. and 50 ft. E. from crossroads, 15 ft. E. of fence corner, in concrete post; standard tablet stamped "P T Sta No 143 F 1925"-----	539. 738
Reference mark, 84 ft. N. of crossroads, at N. stone abutment of highway bridge over drainage ditch, on top of W. corner of NW. end of W. wing wall; chiseled square-----	542. 63
Harness, 1.8 mi. E. of, 0.25 mi. E. of SW. cor. sec. 21, T. 21 N., R. 4 W., 50 ft. N. and 40 ft. E. from junction of T-rd. S., in field, in root on SE. side of 12-in. poplar tree; copper nail and washer-----	536. 77
Harness, 1.5 mi. E. of, near SW. cor. sec. 21, T. 21 N., R. 4 W., 35 ft. N. and 35 ft. E. from crossroads, 15 ft. N. and 10 ft. E. from fence corner, in root on SW. side of 30-in. elm tree; copper nail and washer-----	534. 93
Harness, 0.7 mi. E. of, 0.2 mi. E. of W. cor. secs. 20 and 29, T. 21 N., R. 4 W., 0.2 mi. E. of crossroads, at highway bridge over Prairie Creek, on NW. end of N. wing wall of W. concrete abutment; chiseled square-----	533. 24
Harness, at Chicago & Alton R. R. crossing; top of W. rail-----	561. 7
Harness, at W. edge of, about 0.08 mi. W. of S $\frac{1}{4}$ cor. sec. 19, T. 21 N., R. 4 W., 375 ft. W. of C. & A. R. R. crossing, on N. side of rd., in root on N. side of 15-in. tree, westernmost of row of three walnut trees; copper nail and washer-----	567. 76
Harness, 0.5 mi. W. of, near SE. cor. sec. 24, T. 21 N., R. 5 W., 25 ft. N. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "P T Sta No 144 F 1925"-----	549. 244
Reference mark, 275 ft. E. of crossroads, on N. side of rd., at fence line, in top of notch cut in root on SE. side of 24-in. hackberry tree; copper nail and washer-----	549. 98
Harness, 1.5 mi. W. of, near SE. cor. sec. 23, T. 21 N., R. 5 W., 230 ft. W. of crossroads, on N. side of rd., at fence line, in root on S. side of 24-in. locust tree; copper nail and washer-----	572. 75

4. From crossroads 1.5 miles west of Harness along roads west to road junction 3.1 miles north of Mason City, thence north 0.3 mile (by M. W. Clark in 1930)

Harness, 2.5 mi. W. of, near NE. cor. sec. 27, T. 21 N., R. 5 W., 25 ft. S. and 75 ft. W. from crossroads, 20 ft. W. of fence corner, in root on NW. side of hedge tree; copper nail and washer	Feet 572.24
Harness, 3.0 mi. W. of, near N $\frac{1}{4}$ cor. sec. 22, T. 21 N., R. 5 W., 190 ft. W. of Chicago & North Western Ry. track, on S. side of rd., in root on N. side of 18-in. elm tree; copper nail and washer	573.99
Harness, 3.5 mi. W. of, 3.1 mi. N. thence 2.0 mi. E. from Mason City, near NE. cor. sec. 28, T. 21 N., R. 5 W., 15 ft. S. and 35 ft. W. from crossroads, just E. of intersection of C. & A. R. R., in concrete post; standard tablet stamped "P T Sta No 145 F 1925"	599.684
Mason City, 3.1 mi. N. thence 1.0 mi. E. from, near SW. cor. sec. 21, T. 21 N., R. 5 W., 140 ft. N. and 18 ft. E. from crossroads, in root on W. side of 18-in. cottonwood tree; copper nail and washer	589.55
Mason City, 3.1 mi. N. of, near SW. cor. sec. 20, T. 21 N., R. 5 W., 15 ft. N. and 160 ft. E. from intersection of State Highway 24, in root on W. side of 20-in. wild-cherry tree; copper nail and washer	606.31

[Continued in Delavan quadrangle, line 5]

5. From crossroads 0.5 mile west of Harness generally south along roads and Chicago & Alton Railroad to road junction 2.5 miles south and 4 miles east from Mason City (by M. W. Clark in 1930)

Harness, 0.5 mi. W. thence 1.0 mi. S. from, near SE. cor. sec. 25, T. 21 N., R. 5 W., at offset crossroads, 30 ft. N. and 15 ft. W. from junction of T-rd. N., on small culvert; chiseled square	571.91
Harness, 1.5 mi. S. of along Chicago & Alton R. R., near center of sec. 31, T. 21 N., R. 4 W., 225 ft. S. of S. end of trestle over Prairie Creek, 80 ft. W. of track, in root on N. side of 20-in. elm tree; copper nail and washer	532.02
Harness, 2.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 31, T. 21 N., R. 4 W., 24 ft. N. and 47 ft. W. from intersection of E.-W. rd., 2 ft. inside fence, in concrete post; standard tablet stamped "4 A 1930" (recovered by U. S. C. & G. S. in 1935)	531.656
Harness, 2.7 mi. S. of, near quarter corner between secs. 6 and 7, T. 20 N., R. 4 W., 25 ft. S. and 35 ft. E. from rd. crossing, in root on SW. side of 36-in. elm tree; copper nail and washer	551.10
Harness, 3.7 mi. S. of, near quarter corner between secs. 7 and 18, T. 20 N., R. 4 W., at overhead concrete bridge, on E. end of bridge seat of N. abutment, 1 ft. below R. R. B. M.; chiseled square	547.46
Harness, 4.4 mi. S. of, at intersection of C. & A. and Illinois Central R. Rs.; top of E. rail	543.6
Harness, 4.7 mi. S. of, 1.5 mi. S. and 5.7 mi. E. from Mason City, near quarter corner between secs. 18 and 19, T. 20 N., R. 4 W., 20 ft. N. and 140 ft. W. from junction of E.-W. rd. and T-rd. N., 75 ft. W. of track, 25 ft. W. of fence corner, in concrete post; standard tablet stamped "5 A 1930" ⁶⁰	545.058
Mason City, 1.5 mi. S. and 5.0 mi. E. from, near NW. cor. sec. 19, T. 20 N., R. 4 W., 30 ft. S. and 12 ft. E. from junction of T-rd. S., on top of S. end of small culvert; chiseled square	535.77

⁶⁰ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "B 38 1934," elevation 542.440 ft.

	Feet
Mason City, 2.5 mi. S. and 5.0 mi. E. from, near E. cor. secs. 19 and 30, T. 20 N., R. 5 W., on W. side of rd., on N. end of concrete bridge; chiseled square-----	520. 10
6. From point 2.5 miles south and 5 miles east from Mason City south and east along roads to road junction 3 miles north of Middletown (by M. W. Clark in 1930)	
Mason City, 2.8 mi. S. and 5.0 mi. E. from, 4.2 mi. N. and 0.5 mi. W. from Middletown, 0.25 mi. S. of N. cor. secs. 25 and 30, T 20 N., Rs. 4 and 5 W., at center of highway bridge over Sugar Creek, on W. cylindrical concrete pier; chiseled square-----	520. 35
Middletown, 3.0 mi. N. and 0.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 31, T. 20 N., R. 4 W., 30 ft. S. and 235 ft. E. from junction of T-rd. N., in root on N. side of 24-in. locust tree; copper nail and washer-----	523. 33
7. From road junction 2.5 miles south and 2 miles west from Mason City east along road 3 miles (by M. W. Clark in 1930)	
Mason City, 2.5 mi. S. and 0.5 mi. W. from, near quarter corner between secs. 19 and 30, T. 20 N., R. 5 W., about 650 ft. W. of intersection of Chicago & Alton R. R., in yard, 30 ft. N. of gate, in root on E. side of 18-in. hackberry tree; copper nail and washer-----	571. 36
Mason City, 2.5 mi. S. and 0.3 mi. W. from, about 0.25 mi. E. of quarter corner between secs. 19 and 30, T. 20 N., R. 5 W., at C. & A. R. R. crossing, on W. end of rock base supporting middle steel pillars; chiseled square-----	519. 69
Mason City, 2.5 mi. S. and 0.3 mi. E. from, 0.3 mi. E. of W. cor. secs. 20 and 29, T. 20 N., R. 5 W., on S. bridge wall; chiseled square-----	510. 20
8. From road junction 4.2 miles north of Greenview south along State Highway 24 and other roads to point 2.7 miles north of Athens (by S. R. Archer in 1932)	
Greenview, 3.3 mi. N. of, near N. cor. secs. 1 and 2, T. 19 N., R. 6 W., at steel bridge over Salt Creek, on top of E. end of S. abutment; chiseled square-----	499. 78
Greenview, 2.5 mi. N. of, near cor. secs. 1, 2, 11, and 12, T. 19 N., R. 6 W., on top of E. end of S. abutment of bridge over drainage ditch, chiseled square-----	495. 20
Greenview, 1.5 mi. N. of, near NW. cor. sec. 13, T. 19 N., R. 6 W., in SE. corner of crossroads, on top of S. head wall of concrete culvert under rd. E.; chiseled square-----	511. 31
Greenview, 0.6 mi. N. of, near SE. cor. sec. 14, T. 19 N., R. 6 W., on W. side of highway, 300 ft. S. of crossing of Chicago & Alton R. R., 50 ft. E. of center line of track, at E. right-of-way fence, in concrete post; standard tablet stamped "Prim Trav Sta No 18 F 1925"-----	521. 483
Reference mark, 150 ft. S. of crossing, near S. end of E. head wall of concrete culvert under highway; chiseled square-----	522. 69
Greenview, near quarter corner between secs. 23 and 24, T. 19 N., R. 6 W., 150 ft. N. of crossroads, on top of S. end of E. head wall of concrete culvert under highway; chiseled square-----	530. 77
Greenview, 1.0 mi. S. of, near W $\frac{1}{4}$ cor. sec. 25, T. 19 N., R. 6 W., 110 ft. S. of T-rd. E., on E. side of highway, on top of N. head wall of culvert under driveway to farmhouse; chiseled square-----	580. 60
Greenview, 1.5 mi. S. of, near SE. cor. sec. 26, T. 19 N., R. 6 W., in NW. corner of junction of T-rd. W., on top of N. head wall of culvert under rd. W.; chiseled square-----	585. 42

	Feet
Greenview, 2.6 mi. S. of, 40 ft. S. and 400 ft. E. from probable cor. secs. 1, 2, 35, and 36, Tps. 18 and 19 N., R. 6 W., 45 ft. S. and 20 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1925"-----	602. 241
Greenview, 3.9 mi. S. of, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 2, T. 18 N., R. 6 W., 40 ft. E. of crossroads, on N. side of rd., in root on SW. side of 30-in. locust tree; copper nail and washer-----	608. 53
Greenview, 4.9 mi. S. of, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 14, T. 18 N., R. 6 W., in SW. corner of crossroads, on top of W. head wall of concrete culvert under rd. S.; chiseled square-----	617. 55
Greenview, 6.0 mi. S. of, 3.1 mi. N. thence 0.4 mi. W. from Athens, in N. part of NE $\frac{1}{4}$ sec. 23, T. 18 N., R 6 W., at junction of E.-W. rd., at S. side of triangular grass plot between rds.; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1905"-----	607. 161
Athens, 3.1 mi. N. of, in N. part of NW $\frac{1}{4}$ sec. 24, T. 18 N., R. 6 W., 120 ft. W. of T-rd. S., on S. side of rd., at fence line, in root on E. side of large three-forked elm tree; copper nail and washer-----	604. 32
[Continued in Springfield quadrangle, line 15]	
9. From road junction 3.1 miles north of Athens generally east along roads to point 0.8 mile west of Elkhart (by S. R. Archer in 1932)	
Athens, 3.1 mi. N. thence 0.6 mi. E. from, 1.8 mi. W. of Culver, near E. cor. secs. 13 and 24, T. 18 N., R. 6 W., 200 ft. SE. of crossroads, at highway bridge over Indian Creek; on top of E. parapet of N. abutment; chiseled square-----	578. 93
Culver, 0.7 mi. W. of, 0.25 mi. W. of SE. cor. sec. 18, T. 18 N., R. 5 W., 225 ft. N. of junction of N.-S. rd., on top of N. end of E. head wall of concrete culvert under rd. N.; chiseled square-----	591. 03
Culver, 0.25 mi. NW. of S $\frac{1}{4}$ cor. sec. 17, T. 18 N., R. 5 W., 75 ft. W. of crossing of Chicago & North Western Ry., on S. side of rd., on E. side of N. end of concrete walk to residence; chiseled square-----	607. 02
Culver, 0.6 mi. E. of, 0.2 mi. N. of SW. cor. sec. 16, T. 18 N., R. 5 W., at T-junction of N.-S. rd., on E. side of rd., on top of SW. corner of concrete well curb; chiseled square-----	609. 16
Culver, 0.6 mi. E. thence 0.2 mi. S. from, 0.5 mi. N. and 4.0 mi. W. from Fancy Prairie, near NW. cor. sec. 21, T. 18 N., R. 5 W., 30 ft. S. and 20 ft. E. from junction of T-rd. E., 10 ft. S. of intersection of fence lines, in concrete post; standard tablet stamped "39 A 1932"-----	609. 720
Fancy Prairie, 0.5 mi. N. and 3.0 mi. W. from, near S. cor. secs. 15 and 16, T. 18 N., R. 5 W., on N. side of rd., at section line, 10 ft. E. of SE. corner of scale shed, in root on SW. side of forked hedge tree; copper nail and washer-----	612. 31
Fancy Prairie, 0.5 mi. N. and 2.0 mi. W. from, near W. cor. secs. 14 and 23, T. 18 N., R. 5 W., 370 ft. E. of crossroads, on top of W. end of N. head wall of concrete culvert; chiseled square-----	610. 77
Fancy Prairie, 0.5 mi. N. and 1.1 mi. W. from, 0.15 mi. W. of E. cor. secs. 13 and 24, T. 18 N., R. 5 W., on S. side of rd., at fence line, in front of schoolhouse, at N. end of walk to schoolhouse, on top of E. corner of N. end of concrete platform; chiseled square-----	621. 94
Fancy Prairie, 0.5 mi. N. and 0.5 mi. W. from, near quarter corner between secs. 13 and 24, T. 18 N., R. 5 W., 25 ft. E. of T-junction of N.-S. rd., 2 ft. S. of fence corner, in concrete post; standard tablet stamped "40 A 1932"-----	619. 555

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Reference mark, 215 ft. S. of rd. junction, on E. side of rd., in front of farmhouse, on top of S. corner of W. end of concrete walk to house; chiseled square	Feet 621. 43
[Jogs into Springfield quadrangle, line 16]	
Fancy Prairie, 0.5 mi. N. and 1.3 mi. E. from, 0.2 mi. E. of NW. cor. sec. 20, T. 18 N., R. 4 W., 0.2 mi. E. of junction of T-rd. E., on S. side of rd., at SW. corner of cement block foundation of residence, on W. face, near N. end of lower side of end block of top layer; chiseled cross	628. 69
Fancy Prairie, 0.5 mi. N. and 2.1 mi. E. from, 4.0 mi. W. thence 1.0 mi. S. from Elkhart, near SE. cor. sec. 17, T. 18 N., R. 4 W., 20 ft. N. and 20 ft. W. from crossroads, 2.5 ft. W. of fence corner, in concrete post; standard tablet stamped "41 A 1932"	609. 085
Elkhart, 4.0 mi. W. of, 320 ft. E. of NW. cor. sec. 16, T. 18 N., R. 4 W., 320 ft. E. of crossroads, on S. side of rd., in root on NE. side of 30-in. cottonwood tree; copper nail and washer	613. 60
Elkhart, 3.0 mi. W. of, near NW. cor. sec. 15, T. 18 N., R. 4 W., in SE. corner of junction of T-rd. S., on top of E. head wall of concrete culvert under rd. S.; chiseled square	606. 74
Elkhart, 2.5 mi. W. of, near N $\frac{1}{4}$ cor. sec. 15, T. 18 N., R. 4 W., 25 ft. S. and 20 ft. E. from crossroads, at NW. corner of yard, 2.5 ft. S. of fence corner, in concrete post; standard tablet stamped "42 A 1932"	604. 380
Reference mark, in NE. corner of crossroads, on top of E. head wall of concrete culvert under rd. N.; chiseled square	604. 44
Elkhart, 1.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 11, T. 18 N., R. 4 W., in NE. corner of junction of private rd. N., on top of E. head wall of concrete culvert under rd. N.; chiseled square	598. 18
Elkhart, 1.0 mi. W. of, near SW. cor. sec. 12, T. 18 N., R. 4 W., in NE. corner of crossroads, on top of E. head wall of concrete culvert; chiseled square	598. 43
[Continued in Lincoln quadrangle, line 9]	
10. From road junction 0.5 mile north and 0.5 mile west from Fancy Prairie alternately north and east along roads to road junction 1.5 miles north and 1.8 miles east from Middletown (by S. R. Archer in 1932)	
Fancy Prairie, 1.5 mi. N. and 0.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 12, T. 18 N., R. 5 W., in NE angle of junction of T-rd. E., inside fence, at foot of SW. leg of high-power-line tower; highest point of SW. corner of concrete base	619. 81
Fancy Prairie, 2.5 mi. N. and 0.5 mi. W. from, 1.0 mi. W. thence 1.0 mi. S. from Croft, near quarter corner between secs. 1 and 12, T. 18 N., R. 5 W., 400 ft. N. of junction of private rd. W., on S. end of E. head wall of concrete culvert under rd.; chiseled square	610. 69
Croft, 1.0 mi. W. of, near S $\frac{1}{4}$ cor. sec. 36, T. 19 N., R. 5 W., 60 ft. N. of junction of T-rd. E. and private rd. W., on W. side of rd., at entrance to schoolhouse, on top of NE. corner of concrete porch; chiseled square	592. 97
Croft, 1.0 mi. W. thence 0.5 mi. N. from, 3.0 mi. S. and 0.8 mi. W. from Middletown, about 0.15 mi. E. of center of sec. 36, T. 19 N., R. 5 W., 25 ft. S. and 25 ft. W. from junction of T-rd. W., 4 ft. W. of fence corner, in concrete post; standard tablet stamped "43 A 1932"	605. 080

	Feet
Reference mark, 40 ft. S. of T-rd. W., on W. side of rd., at fence line, in root on NE. side of 24-in. walnut tree; copper nail and washer-----	603. 91
Middletown, 2.1 mi. S. and 0.8 mi. W. from, about 0.15 mi. SE. of center of sec. 25, T. 19 N., R. 5 W., 240 ft. S. of T-rd. W., on W. side of rd., at fence line, in root on SE. side of 24-in. hickory tree; copper nail and washer-----	575. 62
Middletown, 1.5 mi. S. and 0.8 mi. W. from, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 25, T. 19 N., R. 5 W., 235 ft. S. of crossroads, on E. side of rd., at Irish Grove Presbyterian Church; on top of N. end of top step at entrance; chiseled square-----	606. 30
Middletown, 1.0 mi. S. and 0.8 mi. W. from, 0.25 mi. E. of center of sec. 24, T. 19 N., R. 5 W., 25 ft. N. of junction of T-rd. E., on W. side of rd., inside fence, in root on SE. side of 12-in. hickory tree; copper nail and washer-----	613. 88
Middletown, 0.2 mi. S. thence 0.5 mi. W. from, 0.25 mi. N. of SW. cor. sec. 18, T. 19 N., R. 4 W., 115 ft. E. of Logan-Menard county line, on E. end of S. head wall of concrete culvert under highway; chiseled square-----	591. 02
Middletown, near center of public park at center of town, on top of NE. corner of concrete foundation for cannon; chiseled square-----	583. 73
Middletown, in NE. angle of street intersection, NE. of NE. corner of public park, at main entrance to Middletown State Bank, in top of W. end of stone doorsill; standard tablet stamped "1932 586" (recovered by U. S. C. & G. S. in 1935)-----	585. 970
Middletown, 0.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 18, T. 19 N., R. 4 W., at offset crossroads, 8 ft. S. of junction of rd. W., 20 ft. S. of rd. E., on E. side of N-S. rd.; top of E. end of iron drain pipe-----	559. 58
Middletown, 1.5 mi. N. of, near S $\frac{1}{4}$ cor. sec. 6, T. 19 N., R. 4 W., 475 ft. N. of rd. crossing, at Chicago & Alton R. R. bridge over Salt Creek, on top of E. end of S. stone abutment; chiseled square-----	526. 70
Middletown, 1.9 mi. NE. of, in SE $\frac{1}{4}$ sec. 6, T. 19 N., R. 4 W., at highway bridge over main channel of Salt Creek, on top of NE. end of E. wing wall of N. stone abutment; chiseled square-----	526. 85
Middletown, 1.5 mi. N. and 1.8 mi. E. from, 0.25 mi. E. of SW. cor. sec. 4, T. 19 N., R. 4 W., 20 ft. N. and 25 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 150 F 1925" ¹ -----	554. 404

¹This bench mark is about 2 ft. from the site of the aluminum tablet which was destroyed in 1932, described in line 1.

MENDON QUADRANGLE

[Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $91^{\circ}15' - 91^{\circ}30'$]

ADAMS AND HANCOCK COUNTIES

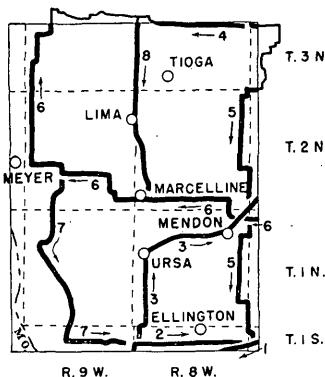


FIGURE 130.—Lines of leveling in Mendon quadrangle.

1. Southwest along Chicago, Burlington & Quincy Railroad near Fowler (by R. G. Clinite in 1914)

[Continued from Camp Point quadrangle, line 1]

Fowler, 1,000 ft. E. of sta., at E. city limit sign, 200 ft. N. of track, 50 ft. N. of center of highway, in NE. angle of junction of street N., 20 ft. N. and 10 ft. W. from fence corner; standard iron post with bronze cap (recovered in 1936; also recovered by U. S. C. & G. S. in 1933)

Feet
724. 716

[Continued in Quincy quadrangle, line 1]

2. From point near west quarter corner sec. 7, T. 1 S., R. 8 W., north 0.6 mile, thence east along U. S. Highway 24 to Fowler (by W. A. Shumate in 1921)

[Continued from Quincy quadrangle, line 3]

Fowler, 5.8 mi. W. of, 5.0 mi. N. and 1.5 mi. E. from Quincy, near SW. cor. sec. 6, T. 1 S., R. 8 W., 150 ft. E. of junction of rd. N., on N. side of highway, on concrete culvert; chiseled square (recovered in 1936)

648. 09

Fowler, 5.0 mi. W. of, near NE. cor. sec. 7, T. 1 S., R. 8 W., in SW. angle of intersection of dim rd., on concrete post; highest point

664. 18

Fowler, 4.4 mi. W. of, 0.25 mi. W. of SE. cor. sec. 5, T. 1 S., R. 8 W., in NE. angle of crossroads, on concrete culvert; chiseled square

669. 42

Fowler, 3.2 mi. W. of, near SE. cor. sec. 4, T. 1 S., R. 8 W., in NW. angle of crossroads, 2 ft. E. of yard fence; standard iron post with bronze cap stamped "1921 705"

704. 736

Reference mark, in SW. angle of crossroads, on concrete culvert; chiseled mark

702. 73

Fowler, 0.2 mi. W. of sta., near NE. cor. sec. 12, T. 1 S., R. 8 W., 150 ft. N. of R. R. track, 35 ft. S. and 15 ft. W. from junction of T-rd. S., 8 ft. S. and 1 ft. E. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 20 1914 724" (recovered in 1936) -----

3. From point 5.8 miles west of Fowler north along road and State Highway 96 to Ursula, thence northeast along Chicago, Burlington & Quincy Railroad to point 2.7 miles northeast of Mendon (by W. A. Shumate in 1921)

Fowler, 6.0 mi. W. thence 0.9 mi. N. from, 3.5 mi. S. thence 0.3 mi. W. from Ursula, 0.1 mi. S. and 0.25 mi. E. from NW. cor. sec. 6, T. 1 S., R. 8 W., on NW. side of rd., on SW. abutment of bridge over Frazier Creek; chiseled square -----

Feet
724. 594

Ursula, 3.0 mi. S. of, near center of sec. 31, T. 1 N., R. 8 W., in NE. angle of crossroads, 2 ft. W. of fence; standard iron post with bronze cap stamped "1921 632" -----

Ursula, 2.0 mi. S. of, near center of sec. 30, T. 1 N., R. 8 W., in NW. angle of junction of T-rd. W., on stone; chiseled square -----

Ursula, 0.4 mi. S. of, near S $\frac{1}{4}$ cor. sec. 18, T. 1 N., R. 8 W., on W. side of highway, at SE. corner of schoolhouse, in stone foundation, 0.8 ft. above ground; standard tablet stamped "1921 604" -----

Ursula, 2.7 mi. NE. of, 1.9 mi. SW. of R. R. sta. at Mendon, 0.1 mi. W. of E $\frac{1}{4}$ cor. sec. 9, T. 1 N., R. 8 W., in NE. angle of intersection of N-S. rd.; standard iron post with bronze cap stamped "1921 688" -----

Mendon, 900 ft. NE. of sta., on SE. side of R. R. track, on W. side of rd., in root of 60-in. maple tree; spike -----

Mendon, 1.0 mi. NE. of, near center of sec. 1, T. 1 N., R. 8 W., on SE. side of track, on S. side of rd., at SW. end of trestle over rd., at foot of high fill, in concrete post; standard tablet stamped "1921 687" and "Prim Trav Sta No 21 T 1924" (recovered in 1936) -----

592. 26

632. 427

565. 81

603. 375

687. 404

754. 75

687. 248

[Continued in Camp Point quadrangle, line 2]

4. From point near east quarter corner sec. 13, T. 3 N., R. 8 W., west along road 5.5 miles to point near center of sec. 18, T. 3 N., R. 8 W. (by S. R. Archer in 1932)

[Continued from Keokuk quadrangle, line 5]

T. 3 N., Rs. 7 and 8 W., near quarter corner between secs. 13 and 18, 49 ft. S. of center of junction of rds. N. and E. at offset in range line, in concrete post; standard tablet stamped "Prim Trav Sta No 5 T 1924"² -----

581. 832

Reference mark, 10 ft. N. and 90 ft. E. from tablet, 100 ft. E. of rd. junction, on S. side of E.-W. rd., in fence line, in root on N. side of 15-in. elm tree; copper nail and washer -----

582. 94

T. 3 N., R. 8 W., 0.15 mi. E. of center of sec. 13, at W. approach of bridge over Bear Creek, on top of W. end of S. concrete wing wall; chiseled square -----

555. 74

T. 3 N., R. 8 W., 0.25 mi. W. of center of sec. 13, 4 ft. E. of W. end of N. head wall of concrete culvert; chiseled square -----

573. 84

T. 3 N., R. 8 W., near quarter corner between secs. 13 and 14, 95 ft. N. of junction of T-rd. S., 10 ft. E. of center line of lane N., in root on SW. side of 12-in. cherry tree; copper nail and washer -----

619. 90

² In 1938 this bench mark was moved 16 ft. south of this position and reset at an elevation 0.348 ft. higher than that originally determined. The figures given represent the new elevation.

	Feet
T. 3 N., R. 8 W., near center of sec. 14, 0.5 mi. N. of Hickory Ridge, 55 ft. N. of crossroads, on W. side of rd., at fence line, in root on W. side of 8-in. walnut tree; copper nail and washer-----	659. 28
T. 3 N., R. 8 W., near W $\frac{1}{4}$ cor. sec. 14, at Buckeye School, on S. side of rd., on E. side near NE. corner of schoolhouse, at entrance, on SE. corner of concrete floor; chiseled square-----	651. 16
T. 3 N., R. 8 W., near center of sec. 15, in NW. corner of crossroads, at concrete culvert under rd. N., on S. end of W. head wall; chiseled square-----	655. 91
T. 3 N., R. 8 W., near center of sec. 16, 24 ft. S. and 26 ft. W. from crossroads, in NE. corner of yard of town hall, in concrete post; standard tablet stamped "Prim Trav Sta No 6 T 1924"-----	659. 452
Reference mark, 13 ft. SW. of tablet, at entrance to town hall, on SE. corner of concrete porch; chiseled square-----	661. 37
T. 3 N., R. 8 W., near center of sec. 17, 2.0 mi. S. of Sutter, 170 ft. W. of junction of T-rd. N., on S. side of rd., in root on NE. side of 24-in. elm tree; copper nail and washer-----	719. 32
T. 3 N., R. 8 W., 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 17, 80 ft. S. of crossroads, on top of E. head wall of concrete culvert; chiseled square-----	741. 48

[Continued in Keokuk quadrangle, line 6].

5. From point on Adams-Hancock county line 3 miles north and 1.5 miles west from Lorraine west 0.9 mile, thence south to Fowler (by S. R. Archer in 1936)

[Continued from Camp Point quadrangle, line 12]

Mendon, 7.5 mi. N. and 0.9 mi. E. from, 3.0 mi. N. and 2.2 mi. W. from Lorraine, 0.25 mi. W. of NE. cor. sec. 1., T. 2 N., R. 8 W., on Adams-Hancock county line, in SW. angle of junction of T-rd. S., in root on NE. side of small cedar tree; copper nail and washer-----	617. 66
Mendon, 6.7 mi. N. and 0.7 mi. E. from, 0.25 mi. S. of center of sec. 1, T. 2 N., R. 8 W., at SE. corner of steel highway bridge over Middle Bear Creek, on top of SE. cylindrical pier, on E. side at S. end of expansion plate, on rivet head; chiseled cross-----	543. 11
Mendon, 6.0 mi. N. and 0.7 mi. E. from, near center of sec. 12, T. 2 N., R. 8 W., 110 ft. N. of junction of T-rd. W., on W. side of rd., in yard of farmhouse, in root on SE. side of 36-in. elm tree; copper nail and washer-----	627. 17
Mendon, 5.5 mi. N. and 0.7 mi. E. from, near quarter corner between secs. 12 and 13, T. 2 N., R. 8 W., 20 ft. N. and 18 ft. E. from crossroads, in orchard, in concrete post; standard tablet stamped "Prim Trav Sta No 13 T 1924 623"-----	623. 251
Mendon, 4.5 mi. N. and 0.7 mi. E. from, near quarter corner between secs. 13 and 24, T. 2 N., R. 8 W., at NW. corner of steel highway bridge over Bear Creek, on top of cylindrical pier, on outside edge of angular guard of expansion plate, on head of northernmost of four rivets; chiseled cross-----	552. 32
Mendon, 3.5 mi. N. and 0.7 mi. E. from, near quarter corner between secs. 24 and 25, T. 2 N., R. 8 W., 70 ft. N. of crossroads, at concrete culvert under N-S. rd., on top of N. end of E. head wall; chiseled square-----	660. 62
Mendon, 3.5 mi. N. and 1.2 mi. E. from, near SE. corner sec. 24, T. 2 N., R. 8 W., on N. side of angle in rd. from E. to S., in fence line, in root on N. side of 12-in. oak tree; copper nail and washer-----	645. 32

	Feet
Mendon, 3.2 mi. N. and 1.2 mi. E. from, 0.3 mi. S. of NW. cor. sec. 30, T. 2 N., R. 7 W., 160 ft. S. of junction of T-rd. E., at concrete culvert under N.-S. rd., on top of S. end of E. head wall; chiseled square	666. 88
Mendon, 2.6 mi. N. and 1.2 mi. E. from, 0.13 mi. N. of SW. cor. sec. 30, T. 2 N., R. 7 W., in yard of Prairie School, 20 ft. E. of center line of rd., 13 ft. S. and 62 ft. W. from SW. corner of schoolhouse, in concrete post; standard tablet stamped "Prim Trav Sta No 14 T 1924 685"	685. 310
Mendon, 1.9 mi. N. and 1.2 mi. E. from, near E $\frac{1}{4}$ cor. sec. 36, T. 2 N., R. 8 W., 465 ft. S. of junction of T-rd. W., at concrete culvert, on top of S. end of W. head wall; chiseled square	687. 00
Mendon, 1.6 mi. N. and 1.2 mi. E. from, near SW. cor. sec. 31, T. 2 N., R. 7 W., 375 ft. NE. of junction of State Highway 61 and rds. N. and W., 200 ft. SE. of crossing of Chicago, Burlington & Quincy R. R. and N.-S. rd.; at curve in highway, on top of NW. head wall of concrete culvert; chiseled square	696. 39
Mendon, 1.0 mi. N. and 1.2 mi. E. from, near E $\frac{1}{4}$ cor. sec. 1, T. 1 N., R. 8 W., in SW. angle of crossroads, at concrete culvert under highway, on top of S. end of E. wall of W. head wall; chiseled square	715. 68
Mendon, 1.2 mi. E. of, near E $\frac{1}{4}$ cor. sec. 12, T. 1 N., R. 8 W., 450 ft. W. of section line and junction of rd. E., at W. end of curve in highway, on N. head wall of concrete culvert; chiseled square	748. 06
Mendon, 0.7 mi. E. of, near center of sec. 12, T. 1 N., R. 8 W., 26 ft. N. of junction of T-rd. S., 5 ft. S. of right-of-way marker of highway, in concrete post; standard tablet stamped "Prim Trav Sta No 15 T 1924 768"	767. 909
Mendon, 0.7 mi. E. thence 1.0 mi. S. from, near center of sec. 13, T. 1 N., R. 8 W., 60 ft. W. of crossroads, on S. side of E.-W. rd., inside field fence, in root on SE. side of 30-in. maple tree; copper nail and washer	776. 94
Mendon, 0.7 mi. E. thence 1.7 mi. S. from, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 24, T. 1 N., R. 8 W., 130 ft. S. of private driveways E. and W. to dwellings, on E. side of rd., in root on W. side of 12-in. elm tree, southernmost in row of trees; copper nail and washer	776. 31
Mendon, 0.7 mi. E. thence 2.5 mi. S. from, 3.0 mi. N. and 0.7 mi. W. from Fowler, near S $\frac{1}{4}$ cor. sec. 24, T. 1 N., R. 8 W., 110 ft. N. and 225 ft. W. from junction of T-rd. E., in field, in root on E. side of 30-in. elm tree; copper nail and washer	779. 92
Fowler, 2.2 mi. N. and 0.7 mi. W. from, at Elm Grove School, 0.25 mi. S. of center of sec. 25, T. 1 N., R. 8 W., in NE. angle of crossroads, 4 ft. W. of SW. corner of schoolhouse, in concrete post; standard tablet stamped "Prim Trav Sta No 16 T 1924 743"	743. 137
Fowler, 2.0 mi. N. and 0.2 mi. W. from, near NW. cor. sec. 1, T. 1 N., R. 7 W., 50 ft. S. of junction of T-rd. E., at culvert under N.-S. rd., on top of S. end of E. head wall; chiseled square	754. 50
Fowler, 1.0 mi. N. and 0.2 mi. W. from, near NW. cor. sec. 6, T. 1 S., R. 7 W., in SE. angle of crossroads, at culvert under E.-W. rd., on top of S. head wall; chiseled square	729. 60
Fowler, 0.5 mi. N. and 0.2 mi. W. from, near E $\frac{1}{4}$ cor. sec. 1, T. 1 S., R. 8 W., in NE. angle of rd. fork, at concrete bridge over creek, on top of E. end of N. head wall; chiseled square	699. 04

	Feet
Fowler, 0.5 mi. N. of, 0.15 mi. E. of $W\frac{1}{4}$ cor. sec. 6, T. 1 S., R. 7 W., 120 ft. S. of junction of T-rd. S., at concrete culvert under N.-S. rd., on top of S. end of E. head wall; chiseled square-----	706.70
Fowler, 100 ft. N. and 130 ft. E. from C. B. & Q. R. R. sta., 60 ft. E. of junction of street N., at concrete culvert under highway, on top of W. end of S. head wall; chiseled square-----	728.70
U. S. C. & G. S. standard disk stamped "S 15 1933"-----	725.989
6. From point 1 mile north and 1.5 miles east from Mendon along roads alternately west and north by way of Marceline to Meyer, thence north to sec. 17, T. 3 N., R. 9 W. (by S. R. Archer in 1936)	
[Continued from Camp Point quadrangle, line 11]	
Mendon, 1.0 mi. N. and 1.4 mi. E. from, 0.1 mi. W. of center of sec. 6, T. 1 N., R. 7 W., at concrete culvert under highway, on top of W. end of N. head wall; chiseled square-----	678.79
Mendon, 1.0 mi. N. of, near $W\frac{1}{4}$ cor. sec. 1, T. 1 N., R. 8 W., in SE. angle of crossroads, in root on S. side of 24-in. locust tree; copper nail and washer-----	729.19
Mendon, 1.5 mi. N. of, near NE. cor. sec. 2, T. 1 N., R. 8 W., in SW. angle of crossroads, at concrete culvert under E.-W. rd., on top of W. end of S. head wall; chiseled square-----	686.47
Mendon, 2.0 mi. N. of, near $E\frac{1}{4}$ cor. sec. 35, T. 2 N., R. 8 W., 170 ft. S. of junction of rd. E., on top of N. end of W. head wall of culvert; chiseled square-----	669.46
Mendon, 2.0 mi. N. and 0.7 mi. W. from, 0.25 mi. W. of center of sec. 35, T. 2 N., R. 8 W., on W. bank of creek, on N. side of abandoned rd., in fence line, in root on N. side of 24-in. elm tree; copper nail and washer-----	612.46
Mendon, 2.0 mi. N. and 1.5 mi. W. from, near center of sec. 34, T. 2 N., R. 8 W., 285 ft. S. of junction of T-rd. W., on top of N. end of E. head wall of culvert; chiseled square-----	660.12
Mendon, 2.0 mi. N. and 2.0 mi. W. from, 2.5 mi. E. of Marceline, near $W\frac{1}{4}$ cor. sec. 34, T. 2 N., R. 8 W., 21 ft. N. and 23 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 22 T 1924 683"-----	683.236
Marceline, 2.0 mi. E. of, near center of sec. 33, T. 2 N., R. 8 W., 45 ft. S. and 50 ft. W. from junction of T-rd. N., 40 ft. NE. of NE. corner of church, 30 ft. S. of NE. corner of churchyard, in root on N. side of 15-in. elm tree; copper nail and washer-----	669.25
Marceline, 1.5 mi. E. of, near $E\frac{1}{4}$ cor. sec. 32, T. 2 N., R. 8 W., 300 ft. W. of junction of T-rd. N., on S. side of rd., at fence line, in root on NW. side of 30-in. cherry tree; copper nail and washer-----	672.59
Marceline, 0.6 mi. E. of, 0.12 mi. E. of $W\frac{1}{4}$ cor. sec. 32, T. 2 N., R. 8 W., 170 ft. E. of farmhouse, on top of W. end of N. head wall of concrete culvert; chiseled square-----	627.57
Marceline, 27 ft. S. and 32 ft. E. from crossroads, near center of sec. 31, T. 2 N., R. 8 W., 1 ft. SW. of concrete post marking right-of-way of State Highway 96, on W. side of corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 23 T 1924 614"-----	614.047
Reference mark, 100 ft. E. of tablet, at concrete culvert under E.-W. rd., on top of W. end of S. head wall; chiseled square-----	613.88

	Feet
Marceline, 0.7 mi. W. of, near E $\frac{1}{4}$ cor. sec. 36, T. 2 N., R. 9 W., at W. abutment of concrete bridge over creek, on SW. end of S. wing wall; chiseled square-----	525. 96
Marceline, 1.7 mi. W. of, near W $\frac{1}{4}$ cor. sec. 36, T. 2 N., R. 9 W., in NE. angle of junction of N.-S. rd., at concrete culvert under E.-W. rd., on top of E. end of N. head wall; chiseled square-----	495. 96
Marceline, 0.5 mi. N. and 2.2 mi. W. from, near quarter corner between secs. 26 and 35, T. 2 N., R. 9 W., at right-angle turn in bluff rd. from W. to N., on top of N. end of W. head wall of culvert; chiseled square-----	493. 59
Marceline, 0.8 mi. N. and 2.2 mi. W. from, 0.25 mi. S. of center of sec. 26, T. 2 N., R. 9 W., 12 ft. S. and 25 ft. W. from junction of bluff rd. and rd. NE., 2 ft. S. of NE. corner of yard of dwelling of Merle Whitefield, outside of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 24 T 1924 502"-----	501. 549
Marceline, 1.5 mi. N. and 2.2 mi. W. from, 0.5 mi. S. and 4.0 mi. E. from Meyer, near S $\frac{1}{4}$ cor. sec. 23, T. 2 N., R. 9 W., 75 ft. W. of junction of rd. W., at steel bridge over drainage canal, at NE. cylindrical pier, on N. edge of expansion plate at base of truss, on top of threaded end of bolt; chiseled cross-----	498. 70
Meyer, 0.5 mi. S. and 3.0 mi. E. from, 120 ft. W. of S $\frac{1}{4}$ cor. sec. 22, T. 2 N., R. 9 W., 100 ft. W. of junction of T-rd. N., on N. side of rd., at SW. corner of yard of farmhouse, in root on S. side of small four-forked elm tree; copper nail and washer-----	475. 72
Meyer, 0.5 mi. S. and 2.7 mi. E. from, 725 ft. E. of SW. cor. sec. 22, T. 2 N., R. 9 W., at concrete culvert over drainage ditch, on top of W. end of N. head wall; chiseled square-----	475. 07
Meyer, 0.5 mi. S. and 2.1 mi. E. from, near N $\frac{1}{4}$ cor. sec. 28, T. 2 N., R. 9 W., at steel bridge over drainage canal, on top of SW. cylindrical steel pier filled with concrete; chiseled square-----	477. 05
Meyer, 0.5 mi. S. and 1.6 mi. E. from, near NW. cor. sec. 28, T. 2 N., R. 9 W., 25 ft. S. and 30 ft. E. from junction of T-rd. E., opposite SW. corner of triangle between rds., 3 ft. E. of NW. corner of yard of farmhouse, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "477"-----	477. 011
Meyer, 1.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 20, T. 2 N., R. 9 W., 480 ft. W. of crossroads, on N. side of rd., in yard of abandoned farmhouse, 25 ft. SE. of 30-in. maple tree, in root on SE. side of 36-in. maple tree; 40-penny spike-----	477. 63
Meyer, 0.7 mi. E. of, 0.17 mi. E. of W $\frac{1}{4}$ cor. sec. 20, T. 2 N., R. 9 W., on S. side of rd., at entrance to schoolhouse, on NE. corner of concrete floor of porch; chiseled square-----	478. 71
Meyer, in SE. part of town, near center of sec. 19, T. 2 N., R. 9 W., at junction of T-rd. N., on S. side of E.-W. rd., in yard of farmhouse, in root on NW. side of 10-in. persimmon tree; copper nail and washer-----	478. 28
Meyer, in SE. part of town, 25 ft. N. and 185 ft. W. from right angle in street, 25 ft. N. and 125 ft. E. from junction of T-street N., 18 ft. S. and 48 ft. E. from SE. corner of schoolhouse, in SE. corner of schoolyard, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "486"-----	485. 810
Reference mark, 10 ft. N. and 73 ft. W. from tablet, at S. side of schoolhouse, in front of W. entrance, on SW. corner on concrete porch floor; chiseled square-----	486. 00

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Meyer, 0.6 mi. N. of, 0.16 mi. N. of line between secs. 18 and 19, T. 2 N., R. 9 W., 140 ft. N. of farmhouse, on W. side of rd., at fence corner, at NE. corner of yard, in root on NE. side of 12-in. maple tree; copper nail and washer-----	Feet 477. 62
Meyer, 1.5 mi. N. of, near $N\frac{1}{4}$ cor. sec. 18, T. 2 N., R. 9 W., 23 ft. S. and 20 ft. E. from crossroads, 4 ft. S. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "478"-----	478. 024
Meyer, 1.5 mi. N. of, near $N\frac{1}{4}$ cor. sec. 18, T. 2 N., R. 9 W., 670 ft. W. of crossroads, 23 ft. S. of center line of E.-W. rd.; Mississippi River Comm. B. M. 105/1-----	
cap on iron pipe ³ -----	477. 200
bolt in tile-----	
Meyer, 2.6 mi. N. of, near $S\frac{1}{4}$ cor. sec. 6, T. 2 N., R. 9 W., in NE. angle of junction of T-rd. E., in root on W. side of 40-in. maple tree; copper nail and washer-----	477. 21
Meyer, 3.6 mi. N. of, at Adams-Hancock county line, near $N\frac{1}{4}$ cor. sec. 6, T. 2 N., R. 9 W., 25 ft. S. and 35 ft. W. from junction of T-rd. N., at NW. corner of garden, in fence line, in root on NE. side of small forked maple tree; copper nail and washer-----	478. 36
Meyer, 4.2 mi. N. of, 0.12 mi. N. of center of sec. 31, T. 3 N., R. 9 W., 600 ft. N. of bridge over drainage canal, 130 ft. S. of farmhouse on E. side of rd., in field on W. side of rd., in root on NE. side of 40-in. sycamore tree; copper nail and washer-----	479. 64
Meyer, 5.1 mi. N. of, 550 ft. S. of center of sec. 30, T. 3 N., R. 9 W., 0.1 mi. S. of junction of E.-W. rd., inside fence along E. side of N.-S. rd.; Mississippi River Comm. B. M. 106/1-----	
cap on iron pipe-----	482. 905
bolt in tile-----	478. 924
T. 3 N., R. 9 W., 0.25 mi. E. of center of sec. 30, in NE. angle of junction of T-rd. N., in front of schoolhouse, on SW. corner of concrete floor of porch; chiseled square-----	479. 69
T. 3 N., R. 9 W., 0.25 mi. E. of center of sec. 19, 350 ft. S. of E.-W. quarter line of section, on W. side of rd., in root on SE. side of 24-in. pecan tree; copper nail and washer-----	481. 10
T. 3 N., R. 9 W., 0.11 mi. W. of cor. secs. 17, 18, 19, and 20, 685 ft. E. of junction of rd. SW., in small slough, on S. side of rd., in root on N. side of 40-in. cottonwood tree; top of large boat spike-----	480. 87
T. 3 N., R. 9 W., 0.25 mi. W. of SE. cor. sec. 17, 25 ft. N. and 20 ft. E. from right-angle turn from E. to N. in rd., 55 ft. N. of E.-W. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "479"-----	479. 096

[Continued in Keokuk quadrangle, line 8]

7. From road junction 1.6 miles east and 0.5 mile south from Meyer generally south along road near Mississippi River to sec. 9, T. 1 S., R. 9 W., thence east to road junction 5.8 miles west of Fowler (by S. R. Archer in 1936)

Meyer, 1.6 mi. E. thence 1.3 mi. S. from, 0.17 mi. N. of S. cor. secs. 28 and 29, T. 2 N., R. 9 W., 85 ft. N. and 55 ft. W. from angle in rd. from S. to W., at foot of levee, 10 ft. N. and 55 ft. W. from junction of driveway to pumping sta., in field, in root on NE. side of 24-in. maple tree; copper nail and washer-----

480. 06

³ Cap reported missing in 1936.

	Feet
T. 2 N., R. 9 W., near S $\frac{1}{4}$ cor. sec. 32, 130 ft. E. of top of levee, in NE. angle of crossroads, 30 ft. N. and 25 ft. E. from center of culvert under E.-W. rd. and over N.-S. ditch, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "475"-----	475. 338
T. 1 N., R. 9 W., near S $\frac{1}{4}$ cor. sec. 5, in NE. angle of junction of T- <u>rd.</u> E., 50 ft. N. of center line of rd., at top of levee; top of 3-in. pipe marked "M P No 2"-----	488. 31
T. 1 N., R. 9 W., in SW $\frac{1}{4}$ sec. 8, 650 ft. NE. of intersection of levee and Houghton Landing rd., 75 ft. S. of levee rd., 35 ft. E. of private driveway, 25 ft. W. of NW. corner of yard of farmhouse, in root on W. side of 15-in. birch tree; copper nail and washer-----	475. 24
T. 1 N., R. 9 W., 0.2 mi. W. of center of sec. 17, 400 ft. E. of crossroads at foot of levee, on N. side of rd., 43 ft. E. of galvanized-iron pipe culvert 48 in. in diameter, 8 ft. W. of center line of driveway to farmhouse, 20 ft. S. and 30 ft. W. from SW. corner of farmhouse, midway between corner fence post and W. end of gate, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "475"-----	475. 030
T. 1 N., R. 9 W., in W. part of NE $\frac{1}{4}$ sec. 20, 120 ft. E. of levee rd., on S. side of driveway to farmhouse, in root on W. side of 48-in. maple tree; copper nail and washer-----	477. 05
T. 1 N., R. 9 W., near cor. secs. 20, 21, 28, and 29, 45 ft. N. and 80 ft. E. from right angle in rd.; top of 2-in.iron pipe (U. S. C. E. B. M. designated "South of A Gage")-----	475. 185
Reference mark, 30 ft. N. and 65 ft. E. from right angle in rd., in root on W. side of 40-in. maple tree; boat spike (U. S. C. E. B. M.)-----	474. 28
T. 1 N., R. 9 W., in SW $\frac{1}{4}$ sec. 28, near mouth of Rock Creek drainage canal, at S. end of suspension footbridge over canal, on NW. corner of W. concrete anchor post; chiseled square-----	487. 71
T. 1 N., R. 9 W., in SW $\frac{1}{4}$ sec. 28, 490 ft. below mouth of Rock Creek drainage canal, 0.9 mi. above foot of Flanigans Island, 66 ft. E. of E. bank of Canton Chute, 16 ft. E. of foot of old levee, on W. side of new levee, on property of Lawrence Smith; Mississippi River Comm. B. M. 102/1	
cap on iron pipe-----	475. 780
bolt in tile-----	471. 760
T. 1 N., R. 9 W., 0.25 mi. W. of quarter corner between secs. 28 and 33, 3.0 mi. W. of Rock Creek Sta., on W. side of levee rd., opposite junction of T- <u>rd.</u> E., at foot of levee, on N. side of private rd. which crosses levee, 5 ft. W. of N. post of gate across private rd., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "478"-----	477. 776
T. 1 S., R. 9 W., near N $\frac{1}{4}$ cor. sec. 4, 165 ft. E. of levee rd., on N. side of private rd. SE., 75 ft. NW. of angle to S. in private rd., on E. side of slough, in root on NW. side of 36-in. maple tree; copper nail and washer-----	472. 88
T. 1 S., R. 9 W., 0.4 mi. W. of center of sec. 4, 120 ft. E. of levee rd., on S. side of private rd. E. to farmhouse, in root on NW. side of 18-in. ash tree with two triangles blazed on W. side of trunk; copper nail and washer-----	473. 81

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	Feet
T. 1 S., R. 9 W., 0.1 mi. N. and 0.4 mi. W. from center of sec. 9, 0.4 mi. S. of crossroads, 430 ft. N. of intersection of rd. and E.-W. quarter line of section, on E. side of rd., at foot of levee, on W. side of borrow pit; Mississippi River Comm. B. M. 101/1 cap on iron pipe bolt in tile	475. 462 471. 470
T. 1 S., R. 9 W., near N $\frac{1}{4}$ cor. sec. 9, 8 ft. S. and 23 ft. E. from NW. corner of schoolyard, on S. side of rd., in root on NE. side of 36-in. oak tree; copper nail and washer	471. 59
T. 1 S., R. 9 W., near W. cor. secs. 3 and 10, 120 ft. E. of steel bridge over slough, on S. side of rd., in root on N. side of 30-in. oak tree; copper nail and washer	471. 41
T. 1 S., R. 9 W., 0.18 mi. W. of NE. cor. sec. 10, at concrete culvert, on top at E. end of S. head wall; chiseled square	472. 92
T. 1 S., R. 9 W., near NE. cor. sec. 10, 110 ft. W. of junction of N.-S. rd., on S. side of rd., in root on NE. side of 40-in. cottonwood tree; copper nail and washer	471. 24
T. 1 S., R. 9 W., near N $\frac{1}{4}$ cor. sec. 11, 2.0 mi. SW. of Rock Creek Sta., in NE angle of junction of rd. NE., 4 ft. N. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 29 1919 490"	489. 867
T. 1 S., R. 9 W., in SE $\frac{1}{4}$ sec. 2, 190 ft. NW. of rd. junction, at NW. corner of bridge, on top of NW. end of concrete retaining wall; chiseled square	532. 05
T. 1 S., R. 9 W., 0.25 mi. W. of quarter corner between secs. 1 and 12, at right-angle turn in rd. from S. to E., on S. side of gate to private rd. SW., in root on E. side of 60-in. oak tree; copper nail and washer	599. 83
T. 1 S., R. 8 W., near W. cor. secs. 6 and 7, 6.0 mi. W. of Fowler, 350 ft. E. of junction of T-rd. E., at NE. end of curve in State Highway 96, on top of E. end of S. head wall of concrete culvert	642. 91
8. From point near west quarter corner sec. 18, T. 3 N., R. 8 W., south along State Highway 96 to Marceline (by S. R. Archer in 1936)	
[Connects with line 6 in Keokuk quadrangle]	
Lima, 4.1 mi. N. of town hall, 2.4 mi. E. thence 1.1 mi. S. from Mallard, 0.24 mi. N. of W $\frac{1}{4}$ cor. sec. 19, T. 3 N., R. 8 W., at concrete culvert under highway, on top of S. end of E. head wall; chiseled square	670. 92
Lima, 3.9 mi. N. of, at E $\frac{1}{4}$ cor. sec. 24, T. 3 N., R. 9 W., at offset crossroads, in center of concrete pavement at junction of T-rd. W.; top of steel rod marking quarter corner	688. 16
Lima, 3.9 mi. N. of, at W $\frac{1}{4}$ cor. sec. 19, T. 3 N., R. 8 W., at offset crossroads, in center of concrete pavement at T-rd. E.; top of steel rod marking quarter corner	681. 70
Lima, 3.2 mi. N. of, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 30, T. 3 N., R. 9 W., 100 ft. S. of junction of private rd. W., 23 ft. E. of center line of pavement, in root on SW. side of 14-in. elm tree; copper nail and washer	670. 77
Lima, 2.3 mi. N. of, 1.5 mi. W. of Tioga, near NW. cor. sec. 31, T. 3 N., R. 8 W., 320 ft. S. of junction of rd. E., at E. end of concrete culvert under highway, in top of S. end of head wall, 8 ft. below level of pavement; standard tablet stamped "666"	666. 479

	Feet
Lima, 1.4 mi. N. of, near NW. cor. sec. 6, T. 2 N., R. 8 W., at Adams-Hancock county line, 65 ft. E. of center of crossroads, at concrete culvert under E.-W. rd., on top of W. end of S. head wall; chiseled square-----	639.18
Lima, at N. limits of, 0.12 mi. N. of SW. cor. sec. 6, T. 2 N., R. 8 W., 645 ft. N. of NE. corner of cemetery, 90 ft. S. of highway sign "Lima City Limits," at concrete culvert under highway, on top of S. end of E. head wall; chiseled square-----	665.61
Lima, near center of town, on E. side of main street, opposite Vinson Brothers store, 6 ft. W. of NW. corner of town hall, 12 ft. N. of center of walk leading to entrance, in front of building, 4 ft. E. of E. edge of sidewalk, on N. side, at NW. corner of concrete porch floor, in concrete post; U. S. C. and G. S. and State Survey standard disk stamped "659"-----	659.115
Reference mark, on W. side of street, opposite town hall, 3.7 ft. E. of SE. corner of Vinson Brothers store, on top of S. end of lower concrete step; chiseled square-----	659.80
Lima, near S. limits of, opposite junction of T-rd. W., 8 ft. W. of two telephone poles, on E. side of pavement, on top of beveled concrete curb; chiseled square-----	650.73
Lima, 0.8 mi. S. of, 0.18 mi. S. of NW. cor. sec. 18, T. 2 N., R. 8 W., 0.18 mi. S. of junction of T-rd. E., at concrete culvert under highway, on top of N. end of E. head wall; chiseled square-----	596.92
Lima, 1.1 mi. S. of, near quarter corner between secs. 13 and 18, T. 2 N., Rs. 8 and 9 W., 150 ft. N. of junction of T-rd. E., 345 ft. N. of junction of T-rd. W., at concrete culvert under highway, on top of S. end of E. head wall; chiseled square-----	617.54
Lima, 1.8 mi. S. of, in NW $\frac{1}{4}$ sec. 19, T. 2 N., R. 8 W., at S. abutment of concrete highway bridge over Higgins Creek, on W. parapet; chiseled square-----	547.92
Lima, 2.2 mi. SE. of, 2.2 mi. N. of Marceline, near center of sec. 19, T. 2 N., R. 8 W., 225 ft. N. of junction of T-rd. E., at concrete culvert under highway, in top of N. end of E. head wall; standard tablet stamped "611"-----	611.430
Marceline, 1.4 mi. N. of, in NE $\frac{1}{4}$ sec. 30, T. 2 N., R. 8 W., at NE. end of highway bridge over Bear Creek, on SE. side of pavement, on inside at foot of N. end of coping, on top of wheelguard; chiseled square-----	514.66
Marceline, 1.3 mi. N. of, in NE $\frac{1}{4}$ sec. 30, T. 2 N., R. 8 W., at SW. end of highway bridge over Bear Creek, on SE. side of pavement, on inside at foot of S. end of coping, on top of wheelguard; chiseled square-----	514.62
Marceline, 0.5 mi. N. of, near quarter corner between secs. 30 and 31, T. 2 N., R. 8 W., in SE. angle of junction of private rd. E., opposite public rd. W., at culvert under rd. E., on top of E. end of S. head wall; chiseled square-----	570.07

MEREDOSIA QUADRANGLE
 [Latitude $39^{\circ}45'$ – $40^{\circ}00'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]
BROWN, CASS, MORGAN, PIKE, SCHUYLER, AND SCOTT COUNTIES

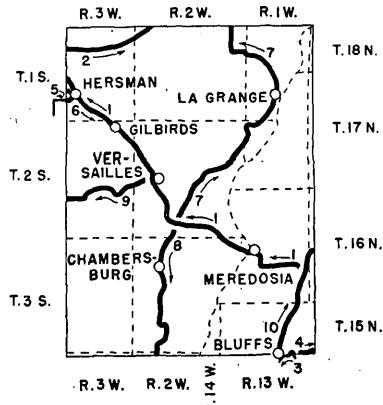


FIGURE 131.—Lines of leveling in Meredosia quadrangle.

1. From point 4.5 miles northeast of Bluffs northwest along roads to Meredosia, thence along Wabash Railway to point 1 mile northwest of Hersman (by R. G. Clinite in 1914)

Bluffs, 4.5 mi. NE. of, 2.8 mi. E. thence 1.2 mi. S. from Meredosia, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 25, T. 16 N., R. 13 W., on E. side of highway, in NW. corner of cemetery adjoining New Salem Baptist Church, 27 ft. SE. of white-oak tree, 30 ft. N. of black-oak tree; U. S. C. E. B. M. 21 (recovered in 1927)

cap on iron pipe-----

bolt in stone-----

Feet
 488.775
 484.855

Meredosia, 0.6 mi. S. and 0.3 mi. E. from, near S $\frac{1}{4}$ cor. sec. 22, T. 16 N., R. 13 W., 40 ft. N., and 25 ft. E. from junction of T-rd. E., in root of twin oak tree; copper nail and washer-----

448.99

Meredosia, at Wabash Ry. bridge over Illinois River, on SW. side of SE. abutment, at corner of bridge seat; chiseled square (recovered by U. S. C. & G. S. in 1933)-----

445.189

Meredosia, at Wabash Ry. bridge over Illinois River, on SW. side of NW. abutment, on corner of bridge seat; chiseled square (recovered by U. S. C. & G. S. in 1933)-----

445.406

Perry Springs Sta., 0.5 mi. W. of, 4.6 mi. NW. of Meredosia, 3.0 mi. SE. of Versailles, at foot of bluff, 300 ft. N. of rd. crossing, at curve, on W. side of rd., 30 ft. S. of 32-in. black-oak tree; standard iron post with bronze cap stamped "465" (recovered in 1927)-----

463.956

Versailles, 120 ft. W. of sta., at crossing of E-W. rd., 20 ft. N. of fence corner, standard iron post with bronze cap stamped "587" and "Prim Trav Sta 49 W 1923" (recovered by U. S. C. & G. S. in 1933)-----

586.757

	Feet
Gilbirds, 0.25 mi. NW. of sta., 350 ft. N. of school, 60 ft. NE. of track at rd. crossing, 10 ft. NE. of rd.; standard iron post with bronze cap stamped "662" (recovered by U. S. C. & G. S. in 1933)-----	661. 439
Hersman, 120 ft. S. of sta., 90 ft. S. and 55 ft. W. from rd. crossing; standard iron post with bronze cap stamped "695" and "Prim Trav Sta No 42 W 1923" (recovered by U. S. C. & G. S. in 1933)-----	693. 312

[Continued in Mount Sterling quadrangle, line 1]

2. From point 0.8 mile east of Mount Sterling east and northeast along U. S. Highway 24 to point near southwest corner sec. 5, T. 1 S., R. 2 W. (by F. L. Shalibo in 1923)

[Continued from Mount Sterling quadrangle, line 3]

Mount Sterling, 1.2 mi. E. of, 0.25 mi. S. and 0.1 mi. W. from NE. cor. sec. 16, T. 1 S., R. 3 W., 500 ft. W. of junction of T-rd. S., on S. side of highway, on W. end of bottom concrete step at entrance to brick house; chiseled square-----	691. 15
Mount Sterling, 2.1 mi. E. of, near center of NE $\frac{1}{4}$ sec. 15, T. 1 S., R. 3 W., 40 ft. E. of crossroads, 15 ft. E. of fence corner, 1 ft. S. of fence, in concrete post; aluminum tablet stamped "S 24 1923"---	672. 556
Reference mark, 90 ft. W. of tablet, 50 ft. W. of crossroads, on S. side of rd., on S. end of concrete culvert; chiseled square-----	673. 35
Mount Sterling, 3.4 mi. E. of, near NE. cor. sec. 14, T. 1 S., R. 3 W., in SW. angle of junction of T-rd. S., at W. end of concrete culvert under rd. to field; chiseled square-----	659. 78
Mount Sterling, 4.3 mi. NE. of, 1.3 mi. SW. of Myers School, near center of SE $\frac{1}{4}$ sec. 12, T. 1 S., R. 3 W., 150 ft. NE. of junction of rd. N., on NW. side of highway, in fence line, in root on S. side of large tree; copper nail-----	640. 46
Myers School, 0.5 mi. SW. of, 0.2 mi. N. of center of sec. 7, T. 1 S., R. 2 W., in NW. angle of crossroads, near fence corner, in concrete post; aluminum tablet stamped "S 25 1923"-----	619. 770
Reference mark, 50 ft. S. of tablet, on S. side of highway, on W. end of concrete culvert; chiseled square-----	617. 86

[Continued in Rushville quadrangle, line 7]

3. Along roads northwest and southwest near Bluffs (by S. R. Archer in 1924)

[A jog from Griggsville quadrangle, line 4]

Bluffs; 0.7 mi. E. of, 0.25 mi. S. and 0.1 mi. W. from NE. cor. sec. 15, T. 15 N., R. 13 W., 85 ft. S. and 35 ft. E. from junction of rd. NE., 30 ft. S. and 35 ft. E. from crossing of Wabash Ry., on S. side of right-of-way fence, 15 ft. E. of fence corner, in root on S. side of 24-in. forked elm tree; copper nail and washer-----	488. 72
--	---------

[Continued in Griggsville quadrangle, line 4]

4. From road junction 0.7 mile east of Bluffs east along road 1.3 miles (by S. R. Archer in 1924)

Bluffs, 1.9 mi. E. of, 1.4 mi. SW. of Neelyville, near NE. cor. sec. 14, T. 15 N., R. 13 W., on Wabash Ry., 80 ft. W. of crossing of N-S. section line, 110 ft. E. of telegraph pole marked "463.25," at NE. corner of concrete bridge over creek, on parapet; chiseled square (recovered by U. S. C. & G. S. in 1933)-----	519. 34
---	---------

[Continued in Arenzville quadrangle, line 1]

5. From point 0.6 mile northwest of Hersman along roads southeast 1.1 miles thence west to point 0.5 mile south and 0.5 mile west from Hersman (by G. F. Williams in 1925)

[Continued from Mount Sterling quadrangle, line 4]

Hersman, on E. side of street, in front of barber shop, on SW. corner of sidewalk; chiseled square⁴ _____ Feet 696.38

Hersman, 0.5 mi. SE. of, 0.1 mi. E. of SW. cor. sec. 27, T. 1 S., R. 3 W., in NW. angle of junction of rd. W., on N. end of iron-pipe culvert under rd. W.; chiseled cross _____ 689.33

[Continued in Mount Sterling quadrangle, line 5]

6. From road junction 0.5 mile southeast of Hersman southeast along road to Gilbirds (by G. F. Williams in 1925)

Hersman, 1.2 mi. SE. of, 2.0 mi. NW. of Gilbirds, near center of sec. 34, T. 1 S., R. 3 W., on S. side of junction of rd. W., in fence corner, at NW. corner of yard, in root on N. side of 26-in. maple tree; copper nail and washer _____ 691.83

Gilbirds, 0.4 mi. NW. of, in NE $\frac{1}{4}$ sec. 2, T. 2 S., R. 3 W., 360 ft. SE. of Wabash Ry. crossing, 25 ft. E. of driveway, on SW. side of rd., in root on W. side of 18-in. maple tree; copper nail and washer _____ 665.62

7. From point on Wabash Railway 0.5 mile west of Perry Springs Station northeast and northwest along road at foot of bluff to Star Bridge over Crooked Creek, thence north 1.5 miles (by C. E. Walker in 1927)

Perry Springs Sta., 0.7 mi. N. of, 200 ft. SW. of Hambaugh School, in NW. angle of rd. junction, near fence corner, on N. end of tile culvert; chiseled square _____ 496.09

Perry Springs Sta., 1.5 mi. NE. of, in SE $\frac{1}{4}$ sec. 21, T. 2 S., R. 2 W., 120 ft. S. of crossroads, on SW. corner of bridge; chiseled square _____ 462.33

Perry Springs Sta., 3.3 mi. NE. of, 2.7 mi. E. of Versailles, 0.14 mi. W. of E $\frac{1}{4}$ cor. sec. 15, T. 2 S., R. 2 W., 25 ft. N. of rd. junction, in concrete post; standard tablet stamped "Prim Trav Sta No 50 W 1923" _____ 465.504

Reference mark, 25 ft. S. of tablet, on N. end of concrete culvert; chiseled square _____ 460.60

Perry Springs Sta., 4.8 mi. NE. of, 4.6 mi. SW. of La Grange, 0.2 mi. E. of NW. cor. sec. 13, T. 2 S., R. 2 W., 180 ft. NE. of junction of rd. NW., on SW. corner of concrete bridge; chiseled square _____ 447.29

La Grange, 2.8 mi. SW. of, 0.2 mi. S. of Adams School, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 6, T. 2 S., R. 1 W., 150 ft. SE. of dwelling of Ike Watts, 15 ft. N. and 15 ft. W. from junction of lane W., in concrete post; standard tablet stamped "Prim Trav Sta No 51 W 1923" _____ 452.588

Reference mark, 150 ft. N. of tablet, in front of dwelling, on property of J. P. Kerr, on S. side of 24-in. walnut tree; copper nail and washer _____ 458.28

La Grange, 0.9 mi. SW. of, just N. of Perkins Lake, 0.2 mi. NW. of center of sec. 32, T. 1 S., R. 1 W., 50 ft. S. of rd. junction, near SE corner of bridge, in root on S. side of 30-in. maple tree; copper nail and washer _____ 454.87

La Grange, 2 ft. E. of NE. corner of La Grange Church, in concrete post; standard tablet stamped "18 WA 1927" _____ 464.915

⁴Established as a reference mark to iron post stamped "Prim Trav Sta No 42 W 1923," described in line 1.

	Feet
Reference mark, 15 ft. SE. of SE. corner of La Grange Church, in root on E. side of 10-in thorn tree; copper nail and washer-----	463. 93
La Grange, 2.0 mi. NW. of, in SE $\frac{1}{4}$ sec. 18, T. 1 N., R. 1 W., 50 ft. N. of rd. junction, at steel bridge over creek, on NE. stone abutment; chiseled square-----	467. 90
La Grange, 2.9 mi. NW. of, 1.0 mi. SE. of Star Bridge over Crooked Creek, in SW $\frac{1}{4}$ sec. 18, T. 1 N., R. 1 W., at junction of rd. S., near Snyder farm, on SW. corner of bridge; chiseled square-----	447. 36
Star Bridge, 165 ft. S. of, 2.0 mi. NE. of Cooperstown, in NW $\frac{1}{4}$ sec. 13, T. 1 S., R. 2 W., 40 ft. S. and 20 ft. W. from rd. junction, 35 ft. S. of elm tree, in concrete post; standard tablet stamped "19 WA 1927"-----	451. 425
Reference mark, 165 ft. N. of tablet, at SW. corner of bridge, on concrete abutment at base of guard rail; chiseled square-----	450. 75
Star Bridge, 1.0 mi. N. of, 0.25 mi. W. of center of sec. 12, T. 1 S., R. 2 W., 40 ft. E. of crossroads, SE. of church, on W. side of 14-in. maple tree; copper nail and washer-----	514. 75
[Connects with line 7 in Rushville quadrangle]	
8. From point on Wabash Railway 0.5 mile west of Perry Springs Station southwest along road at foot of bluff to point 0.3 mile south and 2.7 miles west from Naples (by C. E. Walker in 1927)	
Perry Springs Sta., 1.9 mi. SW. of, 1.3 mi. NE. of Chambersburg, 0.15 mi. NE. of center of sec. 5, T. 3 S., R. 2 W., 20 ft. N. and 30 ft. W. from junction of rd. E., inside fence, in concrete post; standard tablet stamped "20 WA 1927"-----	448. 256
Reference mark, 100 ft. N. of junction of rd. E., in front of Bushfield farmhouse, in root on N. side of forked 8-in. elm tree; copper nail and washer-----	450. 17
Chambersburg, 0.25 mi. NE. of, at NW. corner of bridge over McKee Creek, 5 ft. from anchor plate, on large stone; chiseled square-----	448. 26
Chambersburg, 0.9 mi. SE. of, in NE $\frac{1}{4}$ sec. 17, T. 3 S., R. 2 W., on W. side of rd., near farmhouse of J. M. Chenoweth, near SW. end of SW. abutment of bridge over creek; chiseled square-----	471. 15
Chambersburg, 2.0 mi. S. of, 0.13 mi. NW. of center of sec. 20, T. 3 S., R. 2 W., 20 ft. N. and 20 ft. W., from junction of rd. W., in field, at fence corner, in concrete post; standard tablet stamped "21 WA 1927"-----	477. 722
Reference mark, 100 ft. N. of junction of rd. W., on W. side of rd., on S. end of concrete culvert; chiseled square-----	472. 34
Chambersburg, 4.3 mi. S. of, 4.2 mi. NE. of Valley City, 2.5 mi. NW. along Naples-Perry rd. from ferry across Illinois River at Naples, 800 ft. SW. of junction of second-class rd. S., 60 ft. SW. of farmhouse of Thomas Meham, in root on W. side of 30-in. maple tree; copper nail and washer-----	435. 08
[Connects with line 6 in Griggsville quadrangle]	
9. From Versailles southwest and west along roads to point near quarter corner between secs. 21 and 28, T. 2 S., R. 3 W. (by C. E. Walker in 1927)	
Versailles, 1.0 mi. SW. of Wabash Ry. sta., in NW $\frac{1}{4}$ sec. 19, T. 2 S., R. 2 W., 200 ft. SE. of dwelling of James Ham, on concrete bridge over creek; chiseled square-----	526. 91

740 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Versailles, 2.0 mi. SW. of, 0.2 mi. SW. of center of sec. 24, T. 2 S., R 3 W., 0.2 mi. N. of Ritter Bridge over McKee Creek, 80 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 38 W 1923"-----	550. 471
Reference mark, 10 ft. N. of tablet, on S. side of concrete base of fence post; chiseled square-----	550. 88
Versailles, 3.2 mi. SW. of, 0.2 mi. NE. of center of sec. 23, T. 2 S., R. 3 W., on S. side of rd., near summit of hill, 35 ft. E. of N.-S. fence line, in root on NW. side of 14-in. oak tree; copper nail and washer-----	547. 99
Versailles, 4.9 mi. SW. of, 1.0 mi. S. and 0.3 mi. E. from Jaques, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 22, T. 2 S., R. 3 W., 150 ft. E. of junction of rd. S., on N. side of rd., in root on W. side of 14-in. elm tree; copper nail and washer-----	683. 78
[Connects with line 5 in Mount Sterling quadrangle]	
10. From Bluffs northeast along State Highway 100 to point 3.5 miles east of Meredosia (by C. E. Walker in 1927)	
[Connects with line 4 in Griggsville quadrangle]	
Bluffs, 1.0 mi. NE. of, in NW $\frac{1}{4}$ sec. 10, T. 15 N., R. 13 W., 30 ft. N. and 15 ft. W. from junction of rd. E., on E. side of locust tree, northernmost in row of trees; spike-----	469. 33
Bluffs, 2.6 mi. NE. of, 0.45 mi. S. of NW. cor. sec. 2, T. 15 N., R. 13 W., 0.1 mi. E. of highway, in SE. angle of rd. junction, 15 ft. E. of fence, in concrete post; standard tablet stamped "T T Sta No 7 S 1927"-----	482. 182
Reference mark, 30 ft. S. and 15 ft. E. from rd. junction, in root on E. side of 24-in. hickory tree; copper nail and washer-----	481. 79
Bluffs, 3.5 mi. NE. of, 1.2 mi. SW. of New Salem Baptist Church, 0.2 mi. SW. of center of sec. 36, T. 16 N., R. 13 W., at highway bridge over Spring Run, on SW. cylindrical pier; top of anchor bolt-----	476. 01
New Salem Baptist Church, 2.8 mi. E. thence 1.2 mi. S. from Meredosia, 25 ft. N. of NW. corner of church, in root on NW. side of 30-in. oak tree; copper nail and washer ⁶ -----	487. 59
Meredosia, 3.4 mi. E. of, 0.2 mi. NE. of W $\frac{1}{4}$ cor. sec. 19, T. 16 N., R. 12 W., in front of dwelling of C. O. Mueller, at fence corner, in 8-in. walnut tree; copper nail and washer-----	479. 57

[Continued in Arenzville quadrangle, line 2]

⁶ Established as a reference mark to U. S. C. E. B. M. 21 described in line 1.

METAMORA QUADRANGLE

[Latitude $40^{\circ}45' - 41^{\circ}00'$; longitude $89^{\circ}15' - 89^{\circ}30'$]

MARSHALL, PEORIA, AND WOODFORD COUNTIES

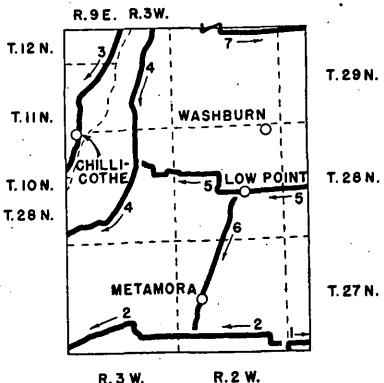


FIGURE 132.—Lines of leveling in Metamora quadrangle.

1. From point 1.8 miles north of Eureka along roads north 0.4 mile and east 1.2 miles to point in sec. 32, T. 27 N., R. 1 W. (by C. E. Walker in 1925)

[Continued from Mackinaw quadrangle, line 3]

Eureka, 2.2 mi. N. of, 33 ft. S. and 36 ft. W. from E $\frac{1}{4}$ cor. sec. 36, T. 27 N., R. 2 W., 2 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 60 T 1924" (recovered in 1927)

Reference mark, 33.5 ft. SE. of crossroads, on top of concrete culvert; chiseled square (recovered in 1927)

Feet
805.875
807.46

[Continued in Minonk quadrangle, line 2]

2. From crossroads 2.2 miles north of Eureka generally west along roads and State Highway 116 to point 2 miles southwest of Germantown (by J. A. Shumate in 1927)

Eureka, 2.2 mi. N. thence 1.0 mi. W. from, 2.4 mi. S. and 3.5 mi. E. from Metamora, near W $\frac{1}{4}$ cor. sec. 36, T. 27 N., R. 2 W., in SE. angle of crossroads, on top of W. end of S. head wall of concrete culvert; chiseled square

Metamora, 1.9 mi. S. and 3.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 35, T. 27 N., R. 2 W., 62 ft. S. and 10 ft. W. from junction of T-rd. S., on W. head wall of concrete culvert; chiseled square

Metamora, 1.9 mi. S. and 2.2 mi. E. from, about 1,000 ft. E. of S $\frac{1}{4}$ cor. sec. 27, T. 27 N., R. 2 W., on top of N. head wall of concrete culvert; chiseled square

763.13
746.45
745.66

742 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Metamora, 1.9 mi. S. and 1.5 mi. E. from, 25 ft. S. and 46 ft. E. from NW. cor. sec. 34, T. 27 N., R. 2 W., in front yard of Happy Hour School, 2 ft. S. and 17 ft. E. from NW. corner of iron fence, in concrete post; standard tablet stamped "Prim Trav Sta No 61 T 1924"-----	759. 286
Reference mark, 13 ft. due W. of tablet, 5 ft. from fence corner, in root on NE. side of 12-in. cottonwood tree; copper nail and washer-----	759. 17
Metamora, 1.9 mi. S. and 0.5 mi. E. from, near NW. cor. sec. 33, T. 27 N., R. 2 W., 42 ft. S. and 30 ft. E. from junction of T-rd. S., in bench on E. side of 10-in. hedge tree; copper nail and washer-----	755. 06
Metamora, 1.9 mi. S. and 0.5 mi. W. from, near NW. cor. sec. 32, T. 27 N., R. 2 W., in SE. angle of crossroads, on top of E. head wall of concrete culvert; chiseled square (recovered in 1929)-----	768. 02
Metamora, 1.9 mi. S. and 0.8 mi. W. from, on line between secs. 30 and 31, T. 27 N., R. 2 W., at Alton R. R. crossing; top of rail-----	780. 6
Metamora, 1.9 mi. S. and 1.5 mi. W. from, about 600 ft. W. of SE. cor. sec. 25, T. 25 N., R. 3 W., 25 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 62 T 1924"-----	787. 236
Reference mark, 60 ft. N. of tablet, in root on E. side of 15-in. maple tree; copper nail and washer-----	786. 57
Metamora, 1.9 mi. S. and 2.6 mi. W. from, 850 ft. W. of NE. cor. sec. 35, T. 27 N., R. 3 W., 200 ft. W. of junction of private T-rd. N., on S. side of rd., in root on N. side of wild-cherry tree; copper nail and washer-----	796. 63
Metamora, 4.0 mi. SW. of, 1.9 mi. NE. of Germantown, in NE $\frac{1}{4}$ sec. 27, T. 27 N., R. 3 W., 115 ft. W. of junction of State Highway 116, on N. side of rd., on W. head wall of concrete culvert under driveway N.; chiseled square-----	826. 17
Germantown, 1.4 mi. NE. of, in NW $\frac{1}{4}$ sec. 27, T. 27 N., R. 3 W., 30 ft. N. and 57 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 63 T 1924"-----	812. 657
Reference mark, 42 ft. S. 20° E. from tablet, on top of S. head wall of concrete culvert; chiseled square-----	814. 52
Germantown, 1.1 mi. SW. of, about 0.2 mi. S. of N. cor. secs. 31 and 32, T. 27 N., R. 3 W., 108 ft. N. and 10 ft. E. from rd. junction, 72 ft. N. of proposed highway, in concrete post; standard tablet stamped "Prim Trav Sta No 64 T 1924"-----	781. 030
Reference mark, 185 ft. S. and 10 ft. E. from tablet, in root on W. side of 10-in. white-oak tree, on W. bank of ravine; copper nail and washer-----	766. 09
Germantown, 1.9 mi. SW. of, near center of sec. 31, T. 27 N., R. 3 W., on top of S. head wall of culvert under pavement; chiseled square-----	740. 09

[Continued in Dunlap quadrangle, line 1]

3. From point 1.8 miles south of Sparland southwest along State Highway 29 to point 0.7 mile northeast of Rome (by E. E. Harris in 1929; first-order leveling)

[Continued from Lacon quadrangle, line 6]

Sparland, 2.0 mi. S. of, 6.2 mi. NE. of Chillicothe, in NW $\frac{1}{4}$ sec. 26, T. 12 N., R. 9 E., 100 ft. NE. of Hytex School, at concrete bridge over creek, on top near center of SW. wing wall; chiseled square-----	462. 60
Chillicothe, 5.5 mi. NE. of, 13.3 ft. W. of center line of highway, on top of head wall of concrete culvert, 1.6 ft. from N. end; chiseled square-----	489. 29

	Feet
Chillicothe, 5.0 mi. NE. of, 0.3 mi. E. of center of sec. 34, T. 12 N., R. 9 E., 118 ft. S. of junction of rd. W., 11.4 ft. W. of center line of highway, on top near center of SW. wing wall of brick and concrete culvert; chiseled square.	465. 93
Chillicothe, 4.4 mi. NE. of, in N½ sec. 3, T. 11 N., R. 9 E., on W. side of river rd., at farmhouse of Frank Bennett, in NE. corner of yard, at foot of bluffs; U. S. C. E. P. B. M. 62	
cap on iron pipe	463. 293
bolt in limestone block	459. 333
Chillicothe, 4.4 mi. NE. of, about 600 ft. S. of Marshall-Peoria county line, 25 ft. W. of center line of highway, 11 ft. S. of driveway to home of August Beck, in NE. corner of front yard, in concrete post; standard tablet stamped "3 H 1929"	464. 781
Chillicothe, 3.5 mi. NE. of, 0.3 mi. N. of SE. cor. sec. 4, T. 11 N., R. 9 E., at Rose's camp ground, 20.5 ft. E. of center line of highway, on top near center of head wall of concrete culvert; chiseled square	496. 27
Chillicothe, 3.0 mi. NE. of, in NE¼ sec. 9, T. 11 N., R. 9 E., 650 ft. N. of Valley View School, 14.3 ft. W. of center line of highway, 17 ft. S. of center line of dirt rd. W., on top near E. end of head wall of concrete culvert; bottom of chiseled hole	
Chillicothe, 2.2 mi. N. of, 0.5 mi. SW. of Valley View School, in SW¼ sec. 9, T. 11 N., R. 9 E., just S. of junction of rd. NW., at top of grade, 14.2 ft. E. of center line of highway, in concrete post; standard tablet stamped "4 H 1929"	502. 455
Chillicothe, 1.6 mi. N. of, 14.7 ft. W. of center line of highway, on N. side of private driveway, on top of angle of head wall of concrete culvert; chiseled square	467. 72
Chillicothe, 520 ft. N. of city limits, 17 ft. W. of center line of highway, 189 ft. S. of S. face of concrete retaining wall of overhead crossing of Santa Fe R. R., on E. side of concrete manhole; chiseled square	491. 63
Chillicothe, near NW. corner of public square, 39.5 ft. S. of center line of highway, 66.3 ft. E. of center line of main track of Rock Island Ry.; U. S. C. E. P. B. M. 60	
cap on pipe (not recovered; pipe missing)	485. 380
bolt in sandstone block	
Chillicothe, in SW. corner of public square, 64.2 ft. N. of E.-W. rd., 29.5 ft. E. of main-line track of Chicago, Rock Island & Pacific Ry., in concrete post; standard tablet stamped "5 H 1929" (recovered by U. S. C. & G. S. in 1935)	489. 950
Reference mark, 165 ft. N. 10°W. from tablet, 131 ft. S. 45°W. from U. S. C. E. P. B. M. 60, on E. side of sta. platform, on angle of concrete curb; chiseled square	490. 82
Chillicothe, near S. city limits, 22 ft. W. of center of angle SW. in highway, in front of Partridge service sta., on NE. corner of concrete foundation of flagpole; chiseled square	473. 80
Chillicothe, 1.7 mi. SW. of, 1.3 mi. NE. of Rome, in sec. 32, T. 11 N., R. 9 E., 110 ft. N. of dirt rd. W., 14 ft. W. of center line of highway, opposite Horn Inn, on top near center of head wall of concrete culvert; chiseled square	471. 54

[Continued in Dunlap quadrangle, line 3.]

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4. From point 1.9 miles south of Lacon south and southwest along roads to point 1.9 miles northeast of Spring Bay (by E. E. Harris in 1929)

[Continued from Lacon quadrangle, line 8]

Lacon, 2.1 mi. S. of, 0.2 mi. N. of SE. cor. sec. 2, T. 29 N., R. 3 W., about 1,000 ft. N. of junction of T-rd. E., about 200 ft. SE. of house of Jesse Rickey, 23 ft. W. of center line of rd., 10 ft. E. of fence line, in root on E. side of 36-in. elm tree; copper nail and washer	Feet 466.15
Lacon, 2.6 mi. S. of, 0.3 mi. S. of NE. cor. sec. 11, T. 29 N., R. 3 W., 270 ft. S. of Y-junction of rd. SE., 23 ft. W. of center line of rd., 1.3 ft. E. of fence line, 2.3 ft. S. of fence corner, in concrete post; standard tablet stamped "20 H 1929 Reset 1939"*	482.556
Reference mark, 1,461 ft. S. of tablet, on top near center of parapet of concrete culvert; chiseled square	479.94
T. 29 N., R. 3 W., near quarter corner between secs. 11 and 14, 0.6 mi. SW. of South Lacon School, 14 ft. W. of center of angle in rd., 31 ft. N. of farm rd. W., on S. end of head wall of small culvert; chiseled square	453.94
T. 29 N., R. 3 W., about 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 14, near junction of rd. SE., at SE. corner of small bridge over ditch, under floor; top of S. steel crossbeam	461.84
T. 29 N., R. 3 W., in NW $\frac{1}{4}$ sec. 23, 20 ft. E. of center line of rd., 16 ft. SE. of small concrete culvert, 1 ft. W. of fence line at foot of bluff, in concrete post; standard tablet stamped "19 H 1929"	467.173
T. 29 N., R. 3 W., about 700 ft. N. of S. cor. secs. 22 and 23, 100 ft. NW. of South Shore Gun Club, 15 ft. E. of center line of rd., on top near center of head wall of concrete culvert; chiseled square	466.21
T. 29 N., R. 3 W., near W $\frac{1}{4}$ cor. sec. 35, about 3.5 mi. E. of Atchison, Topeka & Santa Fe Ry. sta. at Chillicothe, 2.5 mi. N. of Richland School, 400 ft. E. of Horton sta., 380 ft. E. of N.-S. rd., 275 ft. S. of center line of main track of A. T. & S. F. Ry., 13 ft. S. of center line of switch track, at NW. corner of stock pen, 160 ft. W. of grain elevator, in concrete post; standard tablet stamped "18 H 1929"**	456.178
Richland School, 1.9 mi. N. of, near NW. cor. sec. 2, T. 28 N., R. 3 W., near Marshall-Woodford county line, on E. side of rd., 80 ft. S. of T-rd. E., at SE. corner of bridge over Snag Creek; top of iron bolt	460.48
Richland School, 0.9 mi. N. of, about 500 ft. S. of NW. cor. sec. 11, T. 28 N., R. 3 W., 39 ft. N. and 37 E. from junction of rd. NE., in root on SE. side of 30-in. elm tree; copper nail and washer	512.08
Richland School, 480 ft. N. of, about 8 mi. NW. of Low Point, near SW. cor. sec. 11, T. 28 N., R. 3 W., 53 ft. N. and 34 ft. E. from junction of rd. E., 1.5 ft. SW. of angle in fence line, in concrete post; standard tablet stamped "17 H 1929"	480.654
Reference mark, 267 ft. S. of tablet, in root on E. side of 24-in. oak tree; copper nail and washer	481.80

* In 1939 this bench mark was moved about 15 ft. west of this position, to a point 11.2 ft. south of corner of garage, and reset at an elevation 0.740 ft. lower than that originally determined. The figures given represent the new elevation.

** In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "J 30 1934," elevation 460.524 ft.

	Feet
Richland School, 0.7 mi. SW. of, in SE $\frac{1}{4}$ sec. 15, T. 28 N., R. 3 W., on W. side of angle in rd., 250 ft. S. of house, on top of angle of parapet of concrete culvert; chiseled square-----	481. 28
Richland School, 1.1 mi. SW. of, near quarter corner between secs. 15 and 22, T. 28 N., R. 3 W., 300 ft. S. of crossroads, at bridge over Richland Creek, in round steel support; top of iron bolt-----	471. 20
Richland School, 2.0 mi. SW. of, 0.5 mi. E. thence 1.5 mi. NE. from Partridge School, in SW $\frac{1}{4}$ sec. 22, T. 28 N., R. 3 W., 9 ft. W. of center line of rd., at top of grade, just N. of house on hilltop E. of rd., on S. end of culvert, at base of parapet; chiseled square-----	489. 11
Partridge School, 0.5 mi. E. thence 0.3 mi. NE. from, about 0.25 mi. S. of center of sec. 28, T. 28 N., R. 3 W., 56 ft. N. and 24 ft. E. from junction of rd. E. in concrete post; standard tablet stamped "16 H 1929"-----	478. 936
Reference mark, 353 ft. N.30°W. from tablet, in root on SE. side of 30-in. oak tree; copper nail and washer-----	479. 48
Partridge School, 100 ft. S. of, in SW $\frac{1}{4}$ sec. 29, T. 28 N., R. 3 W., 6 ft. SE. of center of angle in rd., 100 ft. N. of bridge over Partridge Creek, in root on W. side of elm tree 155 in. in circumference; copper nail and washer-----	471. 62
Partridge School, 0.7 mi. SW. of, in NW $\frac{1}{4}$ sec. 32, T. 28 N., R. 3 W., 20 ft. N. of center line of rd., at foot of bluff, 90 ft. W. of twin gates, in root on S. side of 24-in. white-elm tree; copper nail and washer-----	469. 96
Partridge School, 1.5 mi. SW. of, 2.2 mi. NE. of Spring Bay, about 0.15 mi. N. of center of sec. 31, T. 28 N., R. 3 W., 19 ft. W. of center line of rd., 14 ft. S. of driveway to house of Iven Hesselein, 2 ft. W. of fence line, in concrete post; standard tablet stamped "15 H 1929"-----	464. 724
Reference mark, 68 ft. N. of tablet, in root on E. side of 15-in. elm tree; copper nail and washer-----	463. 86

[Continued in Dunlap quadrangle, line 4]

5. From point 3.3 miles east of Low Point along roads west 5 miles, thence north and west to Richland School (by E. E. Harris in 1929)

[Continued from Minonk quadrangle, line 5]

Low Point, 3.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 20, T. 28 N., R. 1 W., in SE. corner of crossroads, on top of culvert; chiseled square-----	742. 34
Low Point, 2.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 19, T. 28 N., R. 1 W., in NE. corner of crossroads, in top near center of parapet of concrete culvert; standard tablet stamped "36 H 1929"-----	732. 464
Low Point, 1.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 24, T. 28 N., R. 2 W., in NE. corner of crossroads, near center of parapet of concrete culvert; chiseled square-----	717. 52
Low Point, in E. part of, in NE. corner of crossroads, on head wall of culvert; chiseled square-----	723. 17
Low Point, at center of Alton R. R. crossing; top of E. rail-----	716. 7
Low Point, 0.4 mi. W. of, in NE. corner of intersection of State Highway 89, on head wall of concrete culvert; chiseled square-----	707. 14
Low Point, 1.1 mi. W. of, about 0.1 mi. W. of E $\frac{1}{4}$ cor. sec. 21, T. 28 N., R. 2 W., 660 ft. W. of junction of T-rd. S., on N. side of rd., at fence corner, in root on S. side of 36-in. oak tree; copper nail and washer -----	693. 34

Low Point, 1.7 mi. W. of, about 0.15 mi. W. of center of sec. 21, T. 28 N., R. 2 W., at intersection of rd. tangents N. and E., in concrete post; standard tablet stamped "Prim Trav Sta No 52 T 1924"-----	Feet 683. 856
Low Point, 1.7 mi. W. thence 1.0 mi. N. from, 1.8 mi. E. of Bricktown School, near center of sec. 16, T. 28 N., R. 2 W., 120 ft. E. of rd. junction, in front of house, in root on NW. side of 18-in. pine tree; copper nail and washer-----	706. 43
Bricktown School, 1.3 mi. E. of, near quarter corner between secs. 16 and 17, T. 28 N., R. 2 W., 50 ft. N. of center line of rd., N. of house, 140 ft. W. of gate, in N. fence line, in root on NE. side of 24-in. burr-oak tree; copper nail and washer-----	690. 02
Bricktown School, 0.6 mi. E. of, 0.25 mi. W. of center of sec. 17, T. 28 N., R. 2 W., 110 ft. E. of junction of T-rd. S., on N. side of rd., in root on W. side of 24-in. white-oak tree; copper nail and washer-----	678. 26
Bricktown School, about 0.15 mi. E. of center of sec. 18, T. 28 N., R. 2 W., in SE. corner of yard, 27 ft. N. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 51 T 1924"-----	665. 588
Reference mark, 135 ft. W. of tablet, in root on SW. side of 15-in. tree; copper nail and washer-----	664. 85
Bricktown School, 1.0 mi. W. of, in NE $\frac{1}{4}$ sec. 13, T. 28 N., R. 3 W., on N. side of rd., 100 ft. E. of T-rd. N., in root on S. side of 20-in. red-oak tree; copper nail and washer-----	669. 54
Bricktown School, 1.8 mi. W. of, 1.7 mi. SE. of Richland School, about 600 ft. E. of W $\frac{1}{4}$ cor. sec. 13, T. 28 N., R. 3 W., on S. side of rd., 650 ft. W. of house, at corner of timber, 5 ft. SW. of fence corner, in root on NE. side of 20-in. red-oak tree; copper nail and washer-----	683. 61
Richland School, 0.8 mi. E. of, 0.25 mi. W. of NE. cor. sec. 14, T. 28 N., R. 3 W., on S. side of rd., 150 ft. E. of house, in root on N. side of prominent soft-maple tree; copper nail and washer-----	656. 37
6. From point 0.4 mile west of Low Point southwest along State Highway 89 to Metamora, thence generally south along road to crossroads 1.9 miles south and 0.5 mile west from Metamora (by E. E. Harris in 1929)	
Low Point, 0.4 mi. W. thence 0.7 mi. SW. from, 1.0 mi. NE. of Cazenovia, in NW $\frac{1}{4}$ sec. 27, T. 28 N., R. 2 W., at concrete bridge over South Branch of Richland Creek, on top of W. end of S. abutment; chiseled square-----	708. 73
Cazenovia, 150 ft. SW. of Alton R. R. sta., on E. side of highway, on S. side of E.-W. rd., in center of head wall of concrete culvert; chiseled square-----	771. 23
Cazenovia, 1.4 mi. SW. of, 3.0 mi. NE. of Metamora, about 0.2 mi. N. of center of sec. 4, T. 27 N., R. 2 W., on E. side of highway, at concrete bridge over Partridge Creek, on top near center of SE. wing wall; standard tablet stamped "34 H 1929"-----	724. 587
Reference mark, 50.2 ft. N.30°W. of tablet, on top of NW. wing wall of bridge; chiseled square-----	724. 54
Metamora, 2.1 mi. NE. of, in NW $\frac{1}{4}$ sec. 9, T. 27 N., R. 2 W., 20 ft. W. of highway, 750 ft. S. of rd. W., in center of head wall of culvert; chiseled square-----	764. 53
Metamora, 1.2 mi. NE. of, about 0.15 mi. W. of NE. cor. sec. 17, T. 27 N., R. 2 W., 530 ft. S. of bridge over South Branch of Partridge Creek, in SW. corner of crossroads, on angle of head wall of culvert; chiseled square-----	752. 10

	Feet
Metamora, 0.6 mi. NE. of, 20 ft. W. of highway, at reverse curve, on top near center of head wall of concrete culvert; chiseled square—	790. 29
Metamora, at former courthouse, in SE. corner of W. concrete foundation of column; standard tablet stamped "35 H 1929"-----	820. 284
Reference mark, 256 ft. S.35°W. from tablet, in root on NW. side of 20-in. maple tree; copper nail and washer-----	821. 18
Metamora, 1.2 mi. S. and 0.5 mi. W. from, about 0.3 mi. S. of NW. cor. sec. 29, T. 27 N., R. 2 W., 190 ft. S. of R. R. crossing, 50 ft. E. of center line of rd., in root on N. side of 18-in. white-maple tree; copper nail and washer-----	772. 21
7. From point 3.4 miles southeast of Lacon along roads south 0.1 mile, thence generally east to point 1.1 miles north and 0.8 mile west from La Rose (by E. E. Harris in 1929)	
[Continued from Lacon quadrangle, line 10]	
Lacon, 3.6 mi. SE. of, 0.3 mi. N. of SW. cor. sec. 4, T. 29 N., R. 2 W., in NE. angle of junction of E.-W. rd., in root on S. side of 24-in. maple tree; copper nail and washer-----	668. 37
[Jogs into Lacon quadrangle, line 11]	
T. 29 N., R. 2 W., near NE. cor. sec. 9, 29 ft. S. and 28 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 79 T 1924"-----	666. 440
T. 29 N., R. 2 W., near SW. cor. sec. 2, 19 ft. N. and 380 ft. E. from crossroads, on W. side of driveway, on concrete culvert; chiseled square-----	689. 32
T. 29 N., R. 2 W., near N $\frac{1}{4}$ cor. sec. 12, 37 ft. S. and 9.5 ft. W. from junction of T-rd. S., on head wall of small concrete culvert; chiseled square-----	695. 70
T. 29 N., R. 1 W., 30 ft. N. of SW. cor. sec. 6, 1.1 mi. N. and 2.2 mi. W. from La Rose, in NE. corner of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 80 T 1924"-----	706. 48
T. 29 N., R. 1 W., about 0.35 mi. E. of NW. cor. sec. 8, 28 ft. S. and 81 ft. E. from junction of rd. SW., 6 ft. S. and 53 ft. E. from fence line, in root on W. side of 15-in. maple tree; copper nail and washer-----	692. 390
[Continued in Minonk quadrangle, line 3]	684. 58

MINIER QUADRANGLE

[Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $89^{\circ}15'$ – $89^{\circ}30'$].

LOGAN, McLEAN, AND TAZEWELL COUNTIES

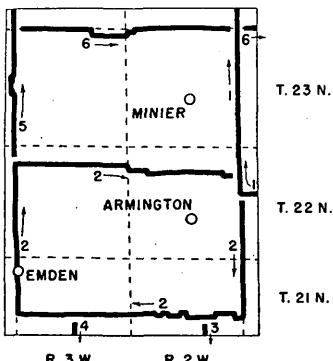


FIGURE 133.—Lines of leveling in Minier quadrangle.

1. From road junction 1.5 miles north and 3.2 miles east from Armington west 0.7 mile, thence north along range-line road to point 2.6 miles south and 1 mile east from Lilly (by C. E. Walker in 1925)

[Continued from McLean quadrangle, line 2]

Armington, 1.5 mi. N. thence 2.5 mi. E. from, 5.0 mi. S. and 2.5 mi. E. from Minier, at crossroads, 48 ft. S. and 30 ft. W. from stone marking quarter corner between secs. 13 and 18, T. 22 N., Rs. 1 and 2 W., in concrete post; standard tablet stamped "P T Sta No 82 F 1925" (recovered in 1930)-----

Reference mark, 75 ft. SE. of crossroads, in root on W. side of 30-in. maple tree; copper nail and washer (recovered in 1930)-----

Minier, 4.0 mi. S. and 2.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 12, T. 22 N., R. 2 W., 80 ft. S. of junction of T-rd. W., at highway bridge over Sugar Creek, on NW. wing wall; chiseled square (recovered in 1930)-----

Minier, 3.0 mi. S. and 2.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 1, T. 22 N., R. 2 W., 100 ft. W. of rd., on E. side of 20-in. poplar tree; copper nail and washer-----

Minier, 1.5 mi. S. and 2.5 mi. E. from, near SE. cor. sec. 25, T. 23 N., R. 2 W., 27 ft. N. and 25 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "P T Sta No 81 F 1925"-----

Reference mark, 30 ft. SW. of rd. junction, in root on NE. side of 24-in. maple tree; copper nail and washer-----

Minier, 0.5 mi. S. thence 2.5 mi. E. from, near SE. cor. sec. 24, T. 23 N., R. 2 W., 55 ft. NW. of crossroads, in root on E. side of 32-in. poplar tree; copper nail and washer-----

Feet
646. 954

646. 48

620. 46

643. 62

646. 997

645. 82

658. 12

	Feet
Minier, 1.5 mi. N. and 2.5 mi. E. from, near NE. cor. sec. 13, T. 23 N., R. 2 W., at offset crossroads, 45 ft. S. and 33 ft. W. from junction of T-rd. W., 2 ft. W. of fence, in concrete post; standard tablet stamped "P T Sta No 80 F 1925"	655. 266
Reference mark, 65 ft. SE. of crossroads, on top of concrete arch culvert; chiseled square	655. 21
Minier, 3.5 mi. N. and 2.5 mi. E. from, near NW. cor. sec. 6, T. 23 N., R. 1 W., 40 ft. SE. of crossroads, in W. side of corner fence post; spike (recovered in 1930)	682. 76
Minier, 4.5 mi. N. and 2.5 mi. E. from, 2.6 mi. S. thence 1.0 mi. E. from Lilly, near NW. cor. sec. 31, T. 24 N., R. 1 W., 40 ft. S. and 20 ft. E. from crossroads, 18 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 69 F 1925"	684. 983
Reference mark, 100 ft. NW. of crossroads, 61 ft. SE. of schoolhouse, in root on W. side of 5-in maple tree; copper nail and washer	685. 45

[Continued in Mackinaw quadrangle, line 2]

2. From road junction 1.5 miles north and 2.5 miles east from Armington south along range-line road 6.5 miles, thence along roads generally west and north to point 0.5 mile north and 3 miles east from Delavan, thence east to point 4 miles south and 2.5 miles east from Minier (by S. R. Archer in 1930)	
Armington, 0.8 mi. N. and 2.5 mi. E. from, 0.29 mi. N. of W $\frac{1}{4}$ cor. sec. 19, T. 22 N., R. 1 W., on top of E. parapet of S. abutment of concrete highway bridge; chiseled square	618. 68
Armington, 2.5 mi. E. of, near SE. cor. sec. 24, T. 22 N., R. 2 W., 65 ft. N. and 20 ft. W. from crossroads, in root on SE. side of 24-in. elm tree; copper nail and washer	639. 25
Armington, 1.0 mi. S. and 2.5 mi. E. from, 12 ft. N. and 15 ft. W. from SE. cor. sec. 25, T. 22 N., R. 2 W., near corner of Logan, McLean, and Tazewell Counties, 18 ft. N. and 15 ft. W. from junction of lane W., 13 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 83 F 1925"	653. 855
Reference mark, 155 ft. S. of tablet, on E. side of rd., 135 ft. S. and 25 ft. E. from junction of lane W., 18 ft. N. and 10 ft. E. from NW. corner of yard of residence, in barn lot, in root on S. side of 24-in. maple tree; copper nail and washer	655. 32
T. 22 N., R. 1 W., near W $\frac{1}{4}$ cor. sec. 31, at S. concrete abutment of highway bridge over Sugar Creek, 4.5 ft. NW. of SE. end of E. wing wall; chiseled square	606. 65
Tps. 21 and 22 N., Rs. 1 and 2 W., at cor. secs. 1, 6, 31, and 36, at center of right angle in rd., on top of stone marking section corner; chiseled square	655. 85
T. 21 N., R. 1 W., near SW. cor. sec. 6, 160 ft. N. and 75 ft. E. from junction of T-rd. S., on S. bank of drain, in field, in root on SW. side of 48-in. elm tree; copper nail and washer	699. 29
T. 21 N., R. 2 W., near SE. cor. sec. 12, 70 ft. N. and 25 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 84 F 1925" ⁸	714. 958

⁸ In 1942 this bench mark was moved 8.4 ft. west of this position and reset at an elevation of 0.012 ft. lower than that originally determined. The figures given represent the new elevation.

750 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Reference mark, 23 ft. N. and 55 ft. W. from rd. junction, on W. side of 12-in. tree, westernmost of two walnut trees 10 ft. apart; copper nail and washer-----	715. 00
Pennsylvania R. R. crossing; top of N. rail-----	710. 4
T. 21 N., R. 2 W., near SE. cor. sec. 13, 60 ft. N. and 18 ft. W. from junction of E.-W. rd., 40 ft. N. of SE. corner of yard of farmhouse, 4 in. underground, in root on SW. side of 12-in. maple tree; copper nail and washer-----	726. 16
T. 21 N., R. 2 W., 0.2 mi. S. of center of sec. 13, 120 ft. W. of right angle in rd., on S. side of rd., near fence, in root on SW. side of 24-in. boxelder tree; copper nail and washer-----	715. 61
T. 21 N., R. 2 W., 0.25 mi. S. of center of sec. 14, 360 ft. E. of junction of T-rd. E., on S. side of rd., at fence line, in root on N. side of 10-in. Osage-orange tree; copper nail and washer-----	706. 47
T. 21 N., R. 2 W., near NW. cor. sec. 23, 140 ft. E. of crossroads, on S. side of rd., at fence line, in root on NW. side of 24-in. maple tree; copper nail and washer-----	685. 78
T. 21 N., R. 2 W., near N $\frac{1}{4}$ cor. sec. 22, 210 ft. E. of junction of T-rd. N., on S. side of rd., 1.5 ft. S. and 3 ft. W. from W. end of curved wall at entrance to farmhouse, in corner of fences S. and W., in concrete post; standard tablet stamped "1 A 1930"-----	679. 910
T. 21 N., R. 2 W., 0.11 mi. E. of quarter corner between secs. 16 and 21, 90 ft. W. of junction of T-rd. S., 560 ft. E. of junction of T-rd. N., at concrete highway bridge, on top of W. end of S. head wall; chiseled square-----	628. 89
T. 21 N., R. 2 W., near NW. cor. sec. 21, at SE. end of steel highway bridge over Sugar Creek, at top of circular steel piers, on top of SE. end of bridge seat; chiseled square-----	585. 11
T. 21 N., R. 2 W., near N $\frac{1}{4}$ cor. sec. 20, 20 ft. S. and 20 ft. W. from junction of T-rd. N., in fence line, in root on SE. side of twin-oak tree; copper nail and washer-----	636. 52
T. 21 N., R. 2 W., 30 ft. S. and 15 ft. W. from N $\frac{1}{4}$ cor. sec. 19, near Gold Spring sta. on Illinois Electric R. R., in SW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 7 1909"-----	619. 945
Reference mark, 75 ft. S. of R. R. crossing, 75 ft. S. and 65 ft. E. from crossroads, at concrete culvert under electric R. R., on top of S. end of W. head wall; chiseled square-----	623. 35
T. 21 N., Rs. 2 and 3 W., near cor. secs. 13, 18, 19, and 24, at concrete culvert running diagonally across rd., on top of SE. end of E. head wall; chiseled square-----	605. 61
T. 21 N., R. 3 W., 55 ft. N. and 45 ft. E. from S $\frac{1}{4}$ cor. sec. 13, 30 ft. N. and 45 ft. E. from SW. corner of small wood lot, in root on SW. side of 24-in. maple tree; copper nail and washer-----	601. 61
T. 21 N., R. 3 W., near N $\frac{1}{4}$ cor. sec. 23, in SE. angle of crossroads, at entrance to schoolhouse, on top of W. end of lower concrete step; chiseled square-----	605. 20
T. 21 N., R. 3 W., 0.19 mi. W. of NE. cor. sec. 22, 0.19 mi. W. of junction of T-rd. N., on S. side of rd., on W. side of driveway to farmhouse, in root on NW. side of 48-in. cottonwood tree; copper nail and washer-----	597. 72

	Feet
T. 21 N., R. 3 W., near NE. cor. sec. 21, 1.0 mi. N. and 0.5 mi. E. from Hartsburg, at Pleasant Valley School, in SW. angle of crossroads, in fence corner, at NE. corner of schoolyard, in concrete post; standard tablet stamped "2 A 1930"-----	595. 181
Reference mark, 30 ft. S. and 90 ft. W. from crossroads, 30 ft. N. and 15 ft. E. from NW. corner of schoolhouse, in root on N. side of 6-in. boxelder tree; copper nail and washer-----	594. 29
Hartsburg, 1.0 mi. N. of, near $S\frac{1}{4}$ cor. sec. 16, T. 21 N., R. 3 W., 165 ft. W. of junction of T-rd. S., on N. side of rd., outside of yard fence, in front of farmhouse, in root on SW. side of 30-in. boxelder tree, westernmost of two trees; copper nail and washer-----	584. 42
Hartsburg, 1.0 mi. N. and 1.5 mi. W. from, at King School, near E. cor. secs. 18 and 19, T. 21 N., R. 3 W., 100 ft. W. of center line of N.-S. rd., 50 ft. N. and 80 ft. W. from SE. corner of schoolyard, in root on N. side of 30-in. tree, northernmost of two maple trees standing 18 ft. apart; copper nail and washer-----	559. 17
Hartsburg, 1.0 mi. N. and 2.5 mi. W. from, about 400 ft. S. of NE. cor. sec. 24, T. 21 N., R. 4 W., on concrete culvert under highway, 4.8 ft. S. of N. end of W. head wall; chiseled square-----	557. 11
Hartsburg, 1.2 mi. N. and 2.5 mi. W. from, 0.2 mi. W. thence 2.3 mi. S. from Emden, 0.2 mi. N. of SE. cor. sec. 13, T. 21 N., R. 4 W., 27 ft. N. and 15 ft. W. from junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 6 1909"-----	554. 310
Emden, 0.2 mi. W. thence 1.5 mi. S. from, near NW. cor. sec. 18, T. 21 N., R. 3 W., at offset crossroads, 45 ft. S. and 25 ft. E. from junction of T-rd. E., in root on E. side of 15-in. boxelder tree; copper nail and washer-----	574. 43
Emden, 0.2 mi. W. thence 0.9 mi. S. from, 0.1 mi. N. of quarter corner between secs. 7 and 12, T. 21 N., Rs. 3 and 4 W., at concrete culvert, on top of N. end of E. head wall; chiseled square-----	565. 04
Emden, 0.2 mi. W. thence 0.5 mi. S. from, near SE. cor. sec. 1, T. 21 N., R. 4 W., in NW. angle of crossroads, at concrete culvert under rd. W., on top of W. end of N. head wall; chiseled square-----	581. 08
Emden, in W. part of, 1,330 ft. S. of Illinois Central R. R. crossing, 45 ft. N. and 25 ft. W. from junction of T-street E., in concrete post; standard tablet stamped "Prim Trav Sta No 135 F 1925"-----	588. 235
I. C. R. R. crossing; top of S. rail-----	577. 6
Emden, 0.2 mi. W. thence 0.5 mi. N. from, near cor. secs. 1, 6, 31, and 36, Tps. 21 and 22 N., Rs. 3 and 4 W., 35 ft. N. of junction of T-rd. W., at concrete culvert, on top of N. end of E. head wall; chiseled square-----	570. 62
Emden, 0.2 mi. W. thence 1.0 mi. N. from, near E $\frac{1}{4}$ cor. sec. 36, T. 22 N., R. 4 W., in SW. angle of junction of private rd. W., at drain under rd., on top of S. concrete head wall; chiseled square-----	571. 54
Emden, 0.2 mi. W. thence 1.5 mi. N. from, near NW. cor. sec. 31, T. 22 N., R. 3 W., 220 ft. E. of crossroads, on S. side of rd., at fence line, in root on N. side of easternmost of two small elm trees standing together; copper nail and washer-----	580. 21
Emden, 0.2 mi. W. thence 2.5 mi. N. from, 2.5 mi. S. thence 3.0 mi. E. from Delavan, near NE. cor. sec. 25, T. 22 N., R 4 W., 30 ft S. and 25 ft. W. from junction of T-rd. W., 4 ft. S. and 3 ft. E. from fence corner; in concrete post; standard tablet stamped "Prim Trav Sta No 134 F 1925"-----	620. 103

	Feet
Reference mark, 225 ft. N. of tablet, 130 ft. N. of T-rd. E., on E. side of N.-S. rd., in root on W. side of tree, northernmost of row of six locust trees; copper nail and washer-----	621.18
Delavan, 1.5 mi. S. and 3.0 mi. E. from, near NE. cor. sec. 24, T. 22 N., R. 4 W., 350 ft. S. of T-rd. W., at concrete culvert, on top of N. end of W. head wall; chiseled square-----	629.64
Delavan, 0.5 mi. S. and 3.0 mi. E. from, about 0.1 mi. N. of SW. cor. sec. 7, T. 22 N., R. 3 W., 630 ft. N. of crossroads, at concrete bridge, on top of N end of E. head wall; chiseled square-----	648.22
Delavan, 0.5 mi. N. and 3.0 mi. E. from, near NE. cor. sec. 12, T. 22 N., R. 4 W., 30 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 133 F 1925"-----	676.178
Reference mark, 30 ft. S. and 50 ft. E. from crossroads, in yard, in line with W. side of residence, in root on NW. side of 30-in. maple tree; copper nail and washer-----	681.15
Delavan, 0.5 mi. N. and 4.0 mi. E. from, near NW. cor. sec. 8, T. 22 N., R. 3 W., 640 ft. E. of crossroads, on S. side of rd., in root on N. side of SW. trunk of large twin basswood tree; copper nail and washer-----	710.72
Delavan, 0.5 mi. N. and 4.9 mi. E. from, near NW. cor. sec. 9, T. 22 N., R. 3 W., 200 ft. S. and 60 ft. E. from crossroads, in field, in root on NE. side of 48-in. cottonwood tree; copper nail and washer-----	686.40
Delavan, 0.5 mi. N. and 5.9 mi. E. from, 2.6 mi. S. and 1.2 mi. W. from Hopedale, near NW. cor. sec. 10, T. 22 N., R. 3 W., 25 ft. S. and 35 ft. E. from junction of T-rd. S., 343 ft. E. of junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 136 F 1925"-----	675.797
Reference mark, 380 ft. W. of tablet, 40 ft. W. of junction of rd. N., at concrete culvert under rd. W., on top of E. end of S. head wall; chiseled square-----	667.74
Hopedale, 2.6 mi. S. and 0.1 mi. W. from, about 0.12 mi. E. of NW. cor. sec. 11, T. 22 N., R. 3 W., 650 ft. E of crossroads, on S. side of rd., 110 ft. W. of NW. corner of yard of residence, in barn lot, in front of scales, in root on S. side of 48-in. maple tree; copper nail and washer-----	658.80
Hopedale, 2.6 mi. S. of, 0.13 mi. W. of S $\frac{1}{4}$ cor. sec. 2, T. 22 N., R. 3 W., at E. concrete abutment of bridge, on top of bridge end of N wing wall; chiseled square-----	650.98
Hopedale, 2.6 mi. S. and 0.9 mi. E. from, near SW. cor. sec. 1, T. 22 N., R. 3 W., 610 ft. E. of crossroads, on N. side of rd., in barn lot, under windmill, on top of SE. corner of square concrete well covering; chiseled square-----	654.03
Hopedale, 2.6 mi. S. and 1.8 mi E. from, 3.5 mi. S. and 3.5 mi. W. from Minier, near SE. cor. sec. 1, T. 22 N., R. 3 W., 20 ft. N. and 20 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 137 F 1925"-----	650.700
Minier, 3.8 mi. S. and 3.5 mi. W. from, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 7, T. 22 N., R. 2 W., 45 ft. N. and 85 ft. E. from junction of T-rd. E., in root on S. side of 10-in. boxelder tree; copper nail and washer-----	647.50
Minier, 3.8 mi. S. and 2.1 mi. W. from, near center of NW $\frac{1}{4}$ sec. 8, T. 22 N., R. 2 W., 20 ft. N. and 30 ft. E. from junction of T-rd. W., 10 ft. E. of fence corner, in root on S. side of 24-in. hackberry tree; copper nail and washer-----	653.10

Minier, 4.0 mi. S. and 1.2 mi. W. from, T. 22 N., R. 2 W., 0.25 mi. W. of center of sec. 9, at highway bridge over W. fork of Sugar Creek, on S. wing wall of W. concrete abutment, 4.5 ft. NE. of SW. end; chiseled square

Minier, 4.0 mi. S. and 0.8 mi. W. from, about 0.25 mi. E. of center of sec. 9, T. 22 N., R. 2 W., 65 ft. N. and 350 ft. E. from crossroads, in yard, 45 ft. W. of residence, in root on SW. side of 12-in. elm tree; copper nail and washer

Minier, 4.0 mi. S. of, 2.5 mi. N. of Armington, near center of sec. 10, T. 22 N., R. 2 W., 75 ft. E. of Pennsylvania R. R., 25 ft. N. and 30 ft. E. from crossroads, 1 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 138 F 1925"

Minier, 4.0 mi. S. and 0.8 mi. E. from, 0.21 mi. W. of center of sec. 11, T. 22 N., R. 2 W., at concrete culvert; on top of E. end of S. head wall; chiseled square

Minier, 4.0 mi. S. and 1.8 mi. E. from, 0.25 mi. W. of center of sec. 12, T. 22 N., R. 2 W., 0.25 mi. E. of crossroads, in front of schoolhouse, on N. side of rd., 2 ft. E. of W. end of lower concrete step; chiseled square

3. From crossroads at northwest corner sec. 28, T. 21 N., R. 2 W., south along road to point 2.9 miles northwest of Lawndale (by S. R. Archer in 1930)

T. 21 N., R. 2 W., near W $\frac{1}{4}$ cor. sec. 28, 3.5 mi. NW. of Lawndale, in SE. angle of crossroads, at concrete culvert under rd. E., on top of W. end of S. head wall; chiseled square

[Continued in Lincoln quadrangle, line 6]

4. From crossroads 1 mile north and 0.5 mile east from Hartsburg south along road 1 mile (by S. R. Archer in 1930)

Hartsburg, 0.5 mi. E. of, near SE. cor. sec. 21, T. 21 N., R. 3 W., in NW. angle of crossroads, at drain under rd. N., on top of W. concrete head wall; chiseled square

[Connects with line 3 in Lincoln quadrangle]

5. From crossroads 0.5 mile north and 3 miles east from Delavan north along roads to point 2 miles south of Tremont (by S. R. Archer in 1930; leveled twice)

Delavan, 1.4 mi. N. and 3.0 mi. E. from, near NE. cor. sec. 1, T. 22 N., R. 4 W., 30 ft. W. of intersection of Chicago & Alton R. R., at N. end of stone culvert under R. R., on top of SW. corner at W. end of cap-stone; chiseled square

Delavan, 1.5 mi. N. and 3.0 mi. E. from, near SW. cor. sec. 31, T. 23 N., R. 3 W., 65 ft. N. of junction of T-rd. W., at concrete culvert, on top of N. end of E. head wall; chiseled square

Delavan, 2.3 mi. N. and 3.0 mi. E. from, about 0.19 mi. S. of NW. cor. sec. 31, T. 23 N., R. 3 W., 0.19 mi. S. of crossroads, at concrete culvert under highway, on top of N. end of E. head wall; chiseled square

Delavan, 3.0 mi. N. and 3.0 mi. E. from, 2 ft. N. and 20 ft. E. from probable W $\frac{1}{4}$ cor. sec. 30, T. 23 N., R. 3 W., on S. side of private T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 132 F 1925"

T. 23 N., R. 4 W., 330 ft. W. of E $\frac{1}{4}$ cor. sec. 24, 330 ft. W. of junction of T-rd. S., on N. side of rd., 35 ft. SE. of SE. corner of farmhouse, in yard, in root on NE. side of 12-in. hickory tree; copper nail and washer

Feet
610. 95

646. 69

644. 420

640. 82

651. 90

648. 98

594. 58

670. 94

661. 01

641. 74

629. 720

569. 13

	Feet
T. 23 N., R. 4 W., 0.25 mi. E. of center of sec. 13, 90 ft. W. of right angle in rd., on N. side of E.-W. fence line, in base on NW. side of trunk of 12-in. wild-cherry tree; copper nail and washer-----	540. 46
T. 23 N., R. 3 W., 0.25 mi. S. of NW. cor. sec. 18, at highway bridge over Mackinaw River, on top of E. end of N. concrete abutment; chiseled square-----	538. 48
T. 23 N., R. 4 W., near E $\frac{1}{4}$ cor. sec. 12, at offset crossroads, 35 ft. N. and 25 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 131 F 1925"-----	635. 863
Reference mark, 110 ft. S. of junction of rd. W., on E. side of rd., at W. end of walk leading to farmhouse, on top of SE. corner of rectangular flagging; chiseled square-----	639. 61
T. 23 N., R. 4 W., about 0.19 mi. S. of E $\frac{1}{4}$ cor. sec. 1, on W. side of rd., 150 ft. S. of front of farmhouse, in field, in root on SW. side of easternmost of two forked elm trees; copper nail and washer-----	636. 89
T. 23 N., R. 3 W., near NW. cor. sec. 6, 3.0 mi. S. of Tremont, 35 ft. E. of crossroads, on S. side of rd., on S. head wall of concrete culvert, 5 ft. E. of W. end; chiseled square-----	620. 88
Tremont, 2.0 mi. S. of, near SE. cor. sec. 25, T. 24 N., R. 4 W.; 60 ft. N. and 30 ft. W. from junction of T-rd. W., 35 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 130 F 1925"-----	641. 472
Reference mark, 10 ft. S. and 35 ft. E. from junction of T-rd. W., 18 ft. S. of driveway to farmhouse, in root on NW. side of 24-in. maple tree; copper nail and washer-----	645. 01

[Continued in Mackinaw quadrangle, line 7]

6. From crossroads 3 miles south of Tremont east along roads to point 3.5 miles north and 3.3 miles east from Minier (by M. W. Clark in 1930)

Tremont, 3.0 mi. S. thence 0.9 mi. E. from, near SW. cor. sec. 32, T. 24 N., R. 3 W., 410 ft. W. of junction of T-rd. S., on N. side of rd., on concrete culvert, 1 ft. E. of W. end of head wall; chiseled square-----	637. 78
Tremont, 3.0 mi. S. thence 2.0 mi. E. from, near S $\frac{1}{4}$ cor. sec. 32 and 33, T. 24 N., R. 3 W., on N. side of rd., at small culvert under driveway to house, on W. head wall; chiseled square-----	633. 82
Tremont, 3.0 mi. S. thence 2.3 mi. E. from, near S $\frac{1}{4}$ cor. sec. 33, T. 24 N., R. 3 W., 260 ft. W. of junction of rd. S., at concrete bridge over creek, on NW. wing wall; chiseled square-----	576. 68
Tremont, 3.0 mi. S. thence 2.7 mi. E. from, 0.23 mi. W. of SE. cor. sec. 33, T. 24 N., R. 3 W., on N. side of rd., in SE. corner of yard of School No. 133, in concrete post; standard tablet stamped "Prim Trav Sta No 129 F 1925"-----	610. 543
Reference mark, 50 ft. NW. of tablet, on lower concrete step of schoolhouse; chiseled square-----	612. 38
T. 24 N., R. 3 W., near S $\frac{1}{4}$ cor. sec. 34, at W. end of Mackinaw River bridge, 18 in. from N. end of NW. wing wall; chiseled square-----	561. 02
T. 24 N., R. 3 W., near SE. cor. sec. 34, 250 ft. E. of junction of T-rd. N., 60 ft. E. of gravel rd., at W. side of bridge, on head wall; chiseled square-----	559. 83
T. 23 N., R. 3 W., about 0.25 mi. S. of NW. cor. sec. 2, 45 ft. N. and 45 ft. E. from junction of T-rd. E., at small culvert, on top of head wall; chiseled square-----	565. 20

	<i>Feet</i>
T. 23 N., R. 3 W., near center of NW $\frac{1}{4}$ sec. 2, 0.24 mi. E. of junction of T-rd. E., on S. side of rd., in root on N. side of 12-in. hard-maple tree; copper nail and washer-----	651.12
T. 23 N., R. 3 W., about 0.25 mi. S. of NE. cor. sec. 2, at Concord School, 700 ft. E. of junction of T-rd. N., in NW. corner of schoolyard, in root on W. side of 24-in. hackberry tree; copper nail and washer-----	643.53
T. 23 N., R. 3 W., 0.25 mi. S. of NW. cor. sec. 1, at concrete bridge, on N. side, 5 ft. W. of E. end; chiseled square-----	616.30
T. 23 N., R. 2 W., 0.25 mi. S. of NW. cor. sec. 6, 125 ft. E. of right angle in rd., in root on W. side of 12-in. hickory tree; copper nail and washer-----	636.14
T. 23 N., R. 2 W., about 0.25 mi. E. of NW. cor. sec. 6, 0.25 mi. W. of Walnutwood sta., 2.3 mi. W. of Tazewell, 20 ft. S. and 20 ft. W. from right angle in rd. from N. to E., in concrete post; standard tablet stamped "Prim Trav Sta No 128 F 1925"-----	626.693
Reference mark, 560 ft. S. of tablet, on E. side of rd., at concrete bridge, on top near center of head wall; chiseled square-----	618.08
Tazewell, 2.0 mi. W. of, near S $\frac{1}{4}$ cor. sec. 31, T. 24 N., R. 2 W., about 300 ft. W. of junction of T-rd. S., at concrete bridge, on NE. wing wall; chiseled square-----	619.80
Tazewell, 1.0 mi. W. of, near N $\frac{1}{4}$ cor. sec. 5, T. 23 N., R. 2 W., 15 ft. S. and 90 ft. W. from junction of T-rd. S., at concrete culvert, on head wall; chiseled square-----	660.00
Tazewell, 30 ft. N. and 85 ft. E. from intersection of Pennsylvania R. R., in concrete post; standard tablet stamped "Prim Trav Sta No 127 F 1925"-----	660.988
Reference mark, 715 ft. SE. of tablet, 225 ft. W. of rd. S., in yard of farmhouse, in root on NE. side of 24-in. hackberry tree; copper nail and washer-----	662.750
Tazewell, 0.7 mi. E. of, 3.5 mi. N. and 0.2 mi. W. from Minier, about 0.25 mi. E. of SW. cor. sec. 34, T. 24 N., R. 2 W., 55 ft. N. and 75 ft. W. from crossroads, in root on SE. side of 24-in. white-oak tree; copper nail and washer-----	660.30
Minier, 3.5 mi. N. and 1.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 2, T. 23 N., R. 2 W., at Boston School, 150 ft. S. and 165 ft. W. from crossroads, on top of concrete step; chiseled square-----	667.21
Minier, 3.5 mi. N. and 2.1 mi. E. from, near N $\frac{1}{4}$ cor. sec. 1, T. 23 N., R. 2 W., at concrete bridge over creek, on SE. wing wall; chiseled square-----	662.54
Minier, 3.5 mi. N. and 2.9 mi. E. from, 0.32 mi. E. of NW. cor. sec. 6, T. 23 N., R. 1 W., 0.32 mi. E. of crossroads, on S. side of rd., on W. end of small culvert; chiseled square-----	681.31

[Connects with line 3 in McLean quadrangle]

MONMOUTH QUADRANGLE

[Latitude $40^{\circ}45' - 41^{\circ}00'$; longitude $90^{\circ}30' - 90^{\circ}45'$]

WARREN COUNTY

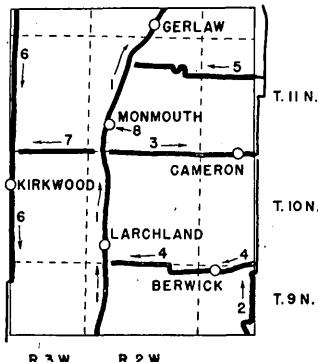


FIGURE 134.—Lines of leveling in Monmouth quadrangle.

1. From point 1.2 miles north of Roseville north and northeast along Chicago, Burlington & Quincy Railroad to point 1 mile northeast of Gerlaw (by R. G. Clinite in 1914)

[Continued from Good Hope quadrangle, line 1]

Roseville, 3.6 mi. N. of, 2.5 mi. S. of Larchland, in SE. angle of rd. crossing, 10 ft. E. of right-of-way fence, 1.5 ft. N. of rd. fence; standard iron post with bronze cap stamped "719"

Feet
717.894

Larchland, 450 ft. N. of sta., 67 ft. E. of center line of track, in NE. angle of rd. crossing; standard iron post with bronze cap stamped "735" (recovered in 1921)

733.201

Larchland, 3.0 mi. N. of, 3.0 mi. S. of C. B. & Q. R. R. sta. at Monmouth, 54 ft. E. of center line of track, in SW. angle of junction of highway and rd. W., 4 ft. S. of corner of fences along right-of-way and rd.; standard iron post with bronze cap stamped "772" (recovered in 1920)

770.781

Monmouth, 300 ft. N. of C. B. & Q. R. R. sta., on sta. platform, in front of Oxford's lunch room, on concrete base of electric light post; chiseled square (recovered in 1921)

775.43

Monmouth, at intersection of Third Street and East Second Avenue, at NW. corner of block in which Central School is situated; standard iron post with bronze cap stamped "763" (recovered by U. S. C. & G. S. in 1935)

761.399

Monmouth, 3.8 mi. NE. of, 2.5 mi. SW. of Gerlaw, 100 ft. E. of wagon bridge over tracks, on N. side of rd., opposite junction of rd. SW., 7 ft. E. of telephone pole; standard iron post with bronze cap stamped "714" (recovered in 1921)

712.769

[Continued in Alexis quadrangle, line 1]

2. From point near center of southeast quarter sec. 21, T. 9 N., R. 1 W., generally north along roads to point 0.2 mile north and 2 miles east from Berwick (by R. G. Clinite in 1920)

[Continued from Good Hope quadrangle, line 5]

Berwick, 2.0 mi. E. thence 2.7 mi. S. from, E. of Center School, 25 ft. N. and 25 ft. E. from SW. cor. sec. 15, T. 9 N., R. 1 W., in NE. angle of junction of T-rd. N., 5 ft. N. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1912 685"-----	Feet 684. 134
Berwick, 2.0 mi. E. thence 1.7 mi. S. from, near NE. cor. sec. 16, T. 9 N., R. 1 W., about 600 ft. N. of junction of T-rd. E., just S. of junction of second-class rd. W., on NW. corner of concrete bridge; chiseled square-----	636. 18
Berwick, 2.0 mi. E. of, 5.5 mi. W. of Abingdon, 0.25 mi. S. of NE. cor. sec. 4, T. 9 N., R. 1 W., 100 ft. W. of junction of T-rd. S., 170 ft. E. of junction of rd. NE., on N. side of rd.; standard iron post with bronze cap stamped "1920 696"-----	695. 267
[Continued in Galesburg quadrangle, line 2]	
3. From Monmouth south along Chicago, Burlington & Quincy Railroad 1 mile, thenoe east along township-line road to Cameron, thence along main line of railroad 0.8 mile to point near southeast corner sec. 33, T. 11 N., R. 1 W. (first 4 miles by R. G. Clinite in 1920; completed by S. R. Archer in 1921)	
Monmouth, 1.0 mi. S. of C. B. & Q. R. R. sta., in SE. angle of intersection of U. S. Highway 34 (Cannon Ball Trail), on S. edge of concrete pavement, 1 ft. E. of E. rail; chiseled square-----	782. 00
Monmouth, 1.0 mi. S. and 1.0 mi. E. from, near NE. cor. sec. 5, T. 10 N., R. 2 W., in SW. angle of crossroads, on concrete base of corner fence post; chiseled square-----	782. 66
Monmouth, 1.0 mi. S. and 2.0 mi. E. from, 4.8 mi. W. of Cameron, near NW. cor. sec. 3, T. 10 N., R. 2 W., 550 ft. E. of crossroads, on S. side of rd., at corner of rd. fence and E. right-of-way line of Minneapolis & St. Louis R. R.; standard iron post with bronze cap stamped "Prim Trav Sta No 26 1919 783"-----	781. 546
Cameron, 1.9 mi. W. of, near NE. cor. sec. 1, T. 10 N., R. 2 W., in SW. angle of junction of T-rd. S.; standard iron post with bronze cap stamped "1921 773" (recovered by U. S. C. & G. S. in 1935)-----	771. 826
Cameron, 1.1 mi. W. of, near NW. cor. sec. 5, T. 10 N., R. 1 W., in SE. angle of offset crossroads, in fence corner, at N. end of W. row of two rows of maple trees, in root on N. side of triple-trunked tree; copper nail and washer-----	777. 09
Cameron, 0.4 mi. W. of, at overhead bridge of Atchison, Topeka & Santa Fe Ry. over electric railway, C. B. & Q. R. R., and rd., on S. side of R. R., on N. side of rd., at foot of N. corner of NW. end of abutment, on concrete projection about level with track; chiseled square and letters "B M" ⁸ -----	773. 94
Cameron, at C. B. & Q. R. R. sta., in front of operator's window, on S. side of track, on NE. corner of concrete base of block signal; chiseled square-----	776. 05
Cameron, 400 ft. E. of sta., at street crossing, on E. side of street, 20 ft. N. of tracks, in root on NE. side of forked 30-in. maple tree; copper nail and washer -----	775. 49

⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 32 1934," elevation 773.965 ft.

[Connects with line 2 in Galesburg quadrangle]

4. From point 2 miles east of Berwick west along Minneapolis & St. Louis Railroad and roads by way of Berwick to point 1 mile south of Larchland, thence north along Chicago, Burlington & Quincy Railroad to Larchland (by S. R. Archer in 1921)

[Connects with line 2 in Galesburg quadrangle]

	Feet
Berwick, 1.0 mi. E. of, 0.15 mi. S. of NE. cor. sec. 5, T. 9 N., R. 1 W., 350 ft. N. of crossroads, on S. side of R. R. track, at N. stone abutment of rd. bridge over small creek, on W. end of bridge seat; chiseled square-----	670. 76
Berwick, in center of town, at E. side of circular park, on N. side of entrance; standard iron post with bronze cap stamped "1921 710"-----	709. 118
Berwick, 1.0 mi. W. of, 0.25 mi. S. of NW. cor. sec. 6, T. 9 N., R. 1 W., 85 ft. E. of crossroads, on S. side of rd., in yard of dwelling, in root on NW. side of 12-in. maple tree; copper nail and washer-----	716. 45
Berwick, 1.5 mi. W. of, 0.2 mi. NW. of center of sec. 1, T. 9 N., R. 2 W., at E. abutment of bridge over creek, on top of N. end of E. wing wall; chiseled square-----	672. 59
Berwick, 2.3 mi. W. of, 0.25 mi. NE. of center of sec. 2, T. 9 N., R. 2 W., 25 ft. N. and 15 ft. E. from NE. corner of bridge, on N. side of rd., on E. bank of creek, on fence line, in root on E. side of 30-in. oak tree; copper nail and washer-----	671. 52
Berwick, 2.6 mi. W. thence 0.3 mi. N. from, 1.0 mi. S. thence 3.4 mi. E. from Larchland, near S $\frac{1}{4}$ cor. sec. 35, T. 10 N., R. 2 W., 370 ft. W. of junction of T-rd. W., at W. abutment of bridge over creek, in top of NW. end of N. wing wall; aluminum tablet stamped "1921 687"-----	685. 720
Reference mark, 210 ft. E. of tablet, 160 ft. W. of junction of T-rd. W., on S. side of rd., in field, in root on NE. side of 24-in. locust tree; copper nail and washer-----	685. 45
Larchland, 1.0 mi. S. thence 2.7 mi. E. from, 0.25 mi. W. of NE. cor. sec. 3, T. 9 N., R. 2 W., 25 ft. E. of N.-S. fence, 15 ft. E. of private rd. S., on S. side of rd., in field, in root on S. side of 18-in. boxelder tree; copper nail and washer-----	720. 70
Larchland, 1.0 mi. S. thence 2.0 mi. E. from, near SW. cor. sec. 34, T. 10 N., R. 2 W., in NE. angle of crossroads, in SW. corner of yard of dwelling, in root on W. side of 24-in. maple tree; copper nail and washer-----	723. 19
Larchland, 1.0 mi. S. and 0.8 mi. E. from, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 32, T. 10 N., R. 2 W., 0.25 mi. W. of crossroads, 45 ft. E. of fence line N., on N. side of rd., in field, in root on E. side of 15-in. elm tree; copper nail and washer-----	718. 84
Larchland, 1.0 mi. S. of, near NW. cor. sec. 5, T. 9 N., R. 2 W., in SE. angle of crossing of C. B. & Q. R. R. and township-line rd., 35 ft. S. and 45 ft. E. from intersection of S. fence line of rd. and E. right-of-way line of R. R., in field, in root on NW. side of 20-in. maple tree; copper nail and washer-----	722. 43
5. From point 1 mile east of Coldbrook generally west along roads to point on Chicago, Burlington & Quincy Railroad 3.8 miles northeast of Monmouth (by S. R. Archer in 1921)	
	[Connects with line 2 in Galesburg quadrangle]
Coldbrook, 0.7 mi. E. of, 2.5 mi. S. thence 0.8 mi. W. from Utah, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 9, T. 11 N., R. 1 W., 50 ft. N. of center line of rd., in field, in root on SW. side of 24-in. tree, easternmost of two maple trees; copper nail and washer-----	776. 08

	Feet
Coldbrook, 420 ft. E. of crossroads, on N. side of rd., at SE. corner of Coldbrook Church of Christ, at front entrance, on lower concrete step; chiseled square-----	772.00
Coldbrook, in SE. angle of crossroads, 4 ft. E. of fence corner, in concrete post; standard tablet stamped "1921 770"-----	769.130
Coldbrook, 1.0 mi. W. of, near NW. cor. sec. 17, T. 11 N., R. 1 W., in SE. angle of crossroads, in line with center of rd. S. and with fence on E. side of rd. N., on S. edge of pavement; chiseled square-----	763.48
Coldbrook, 1.9 mi. W. of, near NW. cor. sec. 18, T. 11 N., R. 1 W., in SE. angle of crossroads, 25 ft. E. of junction of concrete and brick pavements, in line with fences on E. side of N.-S. rd.; chiseled square-----	749.75
Coldbrook, 2.9 mi. W. of, about 6 miles along highway NE. of Monmouth, near NW. cor. sec. 13, T. 11 N., R. 2 W., on opposite side of rd. from Frymire School, in SE. angle of crossroads; standard iron post with bronze cap stamped "1921 736"-----	734.516
Reference mark, N. of iron post, in NE. angle of crossroads, at SW. corner of schoolyard, in root on N. side of 10-in. boxelder tree; copper nail and washer-----	734.10
Coldbrook, 0.5 mi. N. and 3.0 mi. W. from, 0.11 mi. W. of E $\frac{1}{4}$ cor. sec. 11, T. 11 N., R. 2 W., at E. stone abutment of bridge over creek, on SE. end of S. wing wall; chiseled square-----	704.66
Coldbrook, 0.5 mi. N. and 3.6 mi. W. from, 0.16 mi. W. of center of sec. 11, T. 11 N., R. 2 W., just W. of right-angle turn in rd. from S. to W., on N. side of E.-W. rd., in root on SW. side of 36-in. tree, westernmost of two large maple trees; copper nail and washer-----	735.60
Coldbrook, 0.5 mi. N. and 4.4 mi. W. from, 2.0 mi. in air line S. of Gerlaw, near center of sec. 10, T. 11 N., R. 2 W., at junction of rd. N. and private rd. S., on W. side of private rd., 60 ft. S. of junction, in root on S. side of 24-in. hickory tree; copper nail and washer-----	724.64
Gerlaw, 2.0 mi. S. and 1.0 mi. W. from, near center of sec. 9, T. 11 N., R. 2 W., at offset crossroads, 60 ft. S. and 20 ft. W. from junction of rd. S., in root on N. side of 15-in. hickory tree; copper nail and washer-----	670.37
6. From point 0.8 mile south of Little York south along road to point 1.5 miles east of Smithshire (by S. R. Archer in 1921)	
[Continued from Alexis quadrangle, line 2]	
Little York, 1.8 mi. S. of, 8.4 mi. N. of Kirkwood, near quarter corner between secs. 32 and 33, T. 12 N., R. 3 W., in SW. angle of crossroads, in NE. corner of yard of dwelling, on top of embankment; standard iron post with bronze cap stamped "1921 656" (recovered in 1923)-----	654.894
Reference mark, N. of iron post, in NW. angle of crossroads, in SE. corner of schoolyard, in root on NW. side of 30-in. oak tree; copper nail and washer (recovered in 1923)-----	657.92
Kirkwood, 6.4 mi. N. of, 275 ft. N. of quarter corner between secs. 8 and 9, T. 11 N., R. 3 W., 275 ft. N. of junction of private rd. W., on W. side of rd., at fence line, 30 ft. S. of fence corner, in root on E. side of 12-in. oak tree; copper nail and washer-----	712.38
Kirkwood, 5.7 mi. N. of, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 17, T. 11 N., R. 3 W., 0.25 mi. S. of crossroads, on W. side of rd., at fence line, in root on E. side of 24-in. hickory tree; copper nail and washer-----	738.28

	Feet
Kirkwood, 4.9 mi. N. of, near SE. cor. sec. 17, T. 11 N., R. 3 W., in NW. angle of crossroads, 10 ft. N. of SE. corner of yard fence, on W. side of rd. N.; standard iron post with bronze cap stamped "1921 757"-----	755. 446
Reference mark, 40 ft. W. of corner of yard fence, on N. side of rd. W., at S. end of concrete walk, on SW. corner; chiseled square-----	755. 45
Kirkwood, 3.9 mi. N. of, near SE. cor. sec. 20, T. 11 N., R. 3 W., in NW. angle of crossroads, 40 ft. W. of fence corner, on N. side of rd. in root on S. side of 15-in. maple tree; copper nail and washer-----	759. 01
Kirkwood, 3.0 mi. N. of, 0.15 mi. N. of SE. cor. sec. 29, T. 11 N., R. 3 W., on W. side of rd., in field, in root on SE. side of 30-in. elm tree; copper nail and washer-----	764. 25
Kirkwood, 1.9 mi. N. of, near SW. cor. sec. 33, T. 10 N., R. 3 W., in NE. angle of offset crossroads, 4 ft. E. of fence corner, in concrete post; standard tablet stamped "1921 755"-----	754. 100
Reference mark, SW. of tablet, in SE. angle of offset crossroads, in wood lot, 30 ft. S. of fence corner, in root on N. side of 24-in. maple tree; copper nail and washer-----	758.24
Kirkwood, 1.0 mi. N. of, 0.12 mi. N. of SE. cor. sec. 5, T. 10 N., R. 3 W., at W. end of concrete culvert, on head wall; chiseled square-----	749. 95
Kirkwood, in NE. part of town, 0.16 mi. N. of crossing of C. B. & Q. R. R., 75 ft. E. of crossroads, on N. side of Cannon Ball Trail, in root on S. side of 30-in. maple tree; copper nail and washer-----	756. 75
Kirkwood, at Hardin Street crossing of C. B. & Q. R. R.; top of N. rail of west-bound track-----	744. 8
Kirkwood, in SE. part of town, 0.33 mi. S. of crossing of C. B. & Q. R. R., in SW. angle of crossroads, on S. side of E.-W. rd., in root on SE. side of 30-in. oak tree; copper nail and washer-----	747. 80
Kirkwood, 1.1 mi. S. of, near SE. cor. sec. 17, T. 10 N., R. 3 W., in NW. angle of crossroads, on W. side of N.-S. rd., 3 ft. NE. of fence corner; standard iron post with bronze cap stamped "1921 729"-----	727. 611
Reference mark, SE. of tablet, at cor. secs. 16, 17, 20, and 21, T. 10 N., R. 3 W., at center of crossroads, on stone marking section corner; chiseled square-----	726. 03
Kirkwood, 2.1 mi. S. of, near SW. cor. sec. 21, T. 10 N., R. 3 W., in NE. angle of junction of T-rd. E., in root on SW. side of 6-in. maple tree; copper nail and washer-----	704. 49
Kirkwood, 3.1 mi. S. of, near NW. cor. sec. 33, T. 10 N., R. 3 W., in SE. angle of crossroads, on S. side of rd., 10 ft. E. of fence corner, in root on W. side of 36-in. maple tree; copper nail and washer-----	709. 56
Kirkwood, 4.1 mi. S. of, 1.5 mi. E. thence 1.0 mi. N. from Smithshire, near NE. cor. sec. 5, T. 9 N., R. 3 W., in SW. angle of crossroads, on S. side of E.-W. rd., 8 ft. W. of fence corner, in concrete post; standard tablet stamped "1921 685"-----	683. 884
Reference mark, 180 ft. S. and 40 ft. E. from tablet, at bridge on N.-S. rd. over creek, at N. abutment, 6 ft. W. of E. end of E. wing wall; chiseled square-----	682. 83
Smithshire, 1.5 mi. E. of, near SW. cor. sec. 4, T. 9 N., R. 3 W., 120 ft. N. of junction of T-rd. N., in wood lot, on E. side of rd., 5 ft. E. of fence, in root on SW. side of 36-in. maple tree; copper nail and washer-----	723. 56

[Continued in Oquawka quadrangle, line 1]

^a In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 32 1935," elevation 749.421 ft.

7. From crossing of Cannon Ball Trail and Chicago, Burlington & Quincy Railroad 1 mile south of Monmouth west along township-line road 5 miles to crossroads 1.9 miles north of Kirkwood (by S. R. Archer in 1921)

Monmouth, 1.0 mi. S. thence 0.8 mi. W. from C. B. & Q. R. R. sta., near SW. cor. sec. 31, T. 11 N., R. 2 W., 130 ft. E. of junction of T-rd. W., along E-W. fence on township line, in root on N. side of 24-in. elm tree; copper nail and washer-----

T. 10 N., R. 3 W., near NE. cor. sec. 2, in SW. angle of offset crossroads, 500 ft. W. of C. B. & Q. R. R. crossing, 280 ft. N. of intersection of R. R. and N-S. rd., at fence line on W. side of N-S. rd., 12 ft. S. of fence corner; standard iron post with bronze cap stamped "1921 778"-----

Reference mark, 12 ft. N. of iron post, in fence corner, in root on NE. side of 30-in. maple tree; copper nail and washer-----

T. 10 N., R. 3 W., near NE. cor. sec. 3, in SW. angle of offset crossroads, 75 ft. W. of junction of rd. S., on S. side of rd., in front of dwelling, in root on E. side of 36-in. maple tree; copper nail and washer-----

T. 10 N., R. 3 W., near NW. cor. sec. 3, 1.9 mi. N. thence 1.0 mi. E. from Kirkwood, 150 ft. W. of junction of T-rd. N., on S. side of rd., at E-W. fence line, 10 ft. E. of section-line fence S., in root on NW. side of 24-in. elm tree; copper nail and washer-----

8. Along streets in Monmouth from Chicago, Burlington & Quincy Railroad station to intersection of Third Street and East Second Avenue (by S. R. Archer in 1921)

Monmouth, at NW. corner of intersection of South Main Street and West Second Avenue, at SE. corner of post office, in S. face of building, 4 ft. above sidewalk; aluminum tablet stamped "1921 770" (recovered by U. S. C. & G. S. in 1935)-----

Feet
778.36

776.882

776.69

772.63

767.94

768.752

MORRISONVILLE QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $89^{\circ}15'$ – $89^{\circ}30'$]

CHRISTIAN AND MONTGOMERY COUNTIES

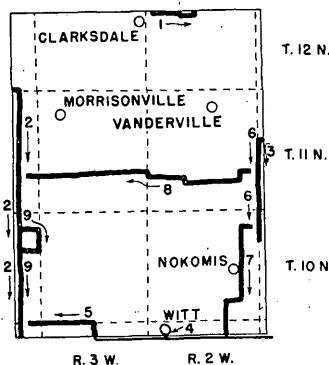


FIGURE 135.—Lines of leveling in Morrisonville quadrangle.

1. From point 1 mile northeast of Clarksdale along roads southeast 0.1 mile, thence generally east and north to point about 3.5 miles south and 1 mile west from Taylorville (by E. O. Brooks in 1922)

[A jog from Taylorville quadrangle, line 3]

Clarksdale, 0.9 mi. NE, thence 1.2 mi. E. from, 0.25 mi. S. of center of sec. 8, T. 12 N., R. 2 W., at concrete bridge over Brushy Branch, on N. side of rd., in center of bottom offset of head wall; chiseled square-----

Feet
571.65

Clarksdale, 0.9 mi. NE, thence 2.3 mi. E. from, near quarter corner between secs. 9 and 16, T. 12 N., R. 2 W., 20 ft. N. and 50 ft. E. from junction of T-rd. N., in concrete post; aluminum tablet stamped "Prim Trav Sta No 46 S 1922 4 EB"-----

616.645

Reference mark, 30 ft. S. and 190 ft. W. from tablet, on top of W. end of head wall of concrete culvert; chiseled square-----

616.07

[Continued in Taylorville quadrangle, line 3]

2. From point 5.5 miles north and 1.7 miles east from Harvel along roads east 0.3 mile, thence south to point 6.4 miles north of Hillsboro (by E. O. Brooks in 1923)

[Continued from Raymond quadrangle, line 3]

Harvel, 5.5 mi. N. thence 2.0 mi. E. from, 2.2 mi. W. thence 1.0 mi. N. from Morrisonville, near SE. cor. sec. 35, T. 12 N., R. 4 W., 40 ft. N and 30 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 4 W 11 EB 1923"-----

634.883

Reference mark, 70 ft. SE. of tablet, in SE. angle of crossroads, in root on W. side of 36-in. maple tree; copper nail and washer-----

635.22

Harvel, 4.5 mi. N. thence 2.0 mi. E. from, 2.2 mi. W. of Morrisonville, near SE. cor. sec. 2, T. 11 N., R. 4 W., in NW. angle of crossroads, in center of top of W. end of concrete culvert; chiseled square-----

629.46

Harvel, 3.5 mi. N. thence 2.0 mi. E. from, near W. cor. secs. 12 and 13, T. 11 N., R. 4 W., on E. side of rd., opposite T-rd. W., on right-of-way fence line, in root on SW. side of 12-in. wild-cherry tree; copper nail and washer-----

639.00

	Feet
Harvel, 2.5 mi. N. thence 2.0 mi. E. from, near SW. cor. sec. 13, T. 11 N., R. 4 W., in NE. angle of crossroads, 5 ft. N. and 5 ft. W. from corner of right-of-way fence; standard tablet stamped "Prim Trav Sta No 3 W 12 EB 1923" (recovered in 1939)	635.014
Reference mark, 5 ft. S. and 10 ft. W. from tablet, in center of top of E. end of concrete head wall of culvert; chiseled square (recovered in 1939)	634.56
Harvel, 1.5 mi. N. thence 2.0 mi. E. from, near NW. cor. sec. 25, T. 11 N., R. 4 W., in SE. angle of crossroads, 20 ft. W. of SW. corner of Prosperity School, on NE. corner of concrete platform of well; chiseled square (recovered in 1939)	634.28
Harvel, 1.5 mi. N. thence 2.0 mi. E. from, at Prosperity School, 10 ft. S. and 30 ft. W. from well, on NW. corner of concrete walk to schoolhouse; chiseled square	634.15
Harvel, 2.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 36, T. 11 N., R. 4 W., 30 ft. S. and 30 ft. E. from junction of T-rd. W., in root on W. side of 12-in. snag; copper nail and washer	633.28
Harvel, 2.0 mi. E. thence 0.5 mi. S. from, 4.3 mi. E. thence 2.0 mi. N. from Raymond, near NE. cor. sec. 2, T. 10 N., R. 4 W., in SW. angle of crossroads, in NE. corner of yard of Union School, 1 ft. S. of right-of-way fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 2 13 EB 1923" ¹⁰	628.186
Reference mark, 70 ft. S. of tablet, in SW. angle of crossroads, at entrance to schoolhouse, on top of NE. corner of concrete platform; chiseled square (recovered in 1939)	629.59
Raymond, 4.3 mi. E. thence 1.0 mi. N. from, near SE. cor. sec. 2, T. 10 N., R. 4 W., in NW. angle of crossroads, at fence corner, in root of hedge; copper nail and washer	630.19
Raymond, 4.3 mi. E. of, near NE. cor. sec. 14, T. 10 N., R. 4 W., in SW. angle of crossroads, on S. end of concrete culvert; chiseled square	630.26
Raymond, 4.3 mi. E. thence 1.0 mi. S. from, near SW. cor. sec. 13, T. 10 N., R. 4 W., 20 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 1 W 14 EB 1923" (reported destroyed)	633.243
Reference mark, 50 ft. S. of tablet, in SE. angle of crossroads, in center of top of E. concrete head wall of culvert; chiseled square	633.96
Raymond, 4.3 mi. E. thence 2.0 mi. S. from, near NW. cor. sec. 25, T. 10 N., R. 4 W., in SE. angle of junction of T-rd. E., at SW. corner of bridge over ditch, on top of S. end of concrete wing wall; chiseled square (recovered in 1939)	636.02
Raymond, 4.3 mi. E. thence 3.0 mi. S. from, near SW. cor. sec. 25, T. 10 N., R. 4 W., in NE. angle of crossroads, in center of top of E. concrete head wall of culvert; chiseled square (recovered in 1939)	635.08
Raymond, 4.3 mi. E. thence 4.0 mi. S. from, 7.1 mi. N. of Hillsboro, near NW. cor. sec. 1, T. 9 N., R. 4 W., in SE. angle of crossroads, 3 ft. N. and 1 ft. E. from fence corner, in concrete; standard iron post with bronze cap stamped "Prim Trav Sta No 69 1911 15 EB 1923" (recovered in 1939) ¹¹	637.043

¹⁰ In 1939 this bench mark was reported destroyed.

¹¹ In 1938 this bench mark was reset in a concrete post. In 1940 it was replaced by a standard tablet stamped "P T S 69 1911 Reset 1940" and set at an elevation 0.118 ft. lower than that originally determined. The figures given represent the new elevation.

Reference mark, 50 ft. N. and 50 ft. W. from tablet, in NW. angle of crossroads, in root on E. side of 12-in. Osage-orange tree; copper nail and washer

Feet
636.61

[Continued in Coffeen quadrangle, line 1]

3. From point 1.8 miles south and 2.6 miles east from Vanderville along roads west 0.1 mile, thence south 0.6 mile (by E. S. Ersler in 1934; single spur line)

[Continued from Pana quadrangle, line 8]

Vanderville, 1.8 mi. S. thence 2.5 mi. E. from, 2.7 mi. NE. thence 5.2 mi. N. from Nokomis, near E $\frac{1}{4}$ cor. sec. 13, T. 11 N., R. 2 W., 36 ft. S. and 21 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "Reset 1939"¹²

655.040

Nokomis, 2.7 mi. NE. thence 4.6 mi. N. from, about 500 ft. S. of NE. cor. sec. 24, T. 11 N., R. 2 W., on W. head wall of concrete culvert; chiseled square (recovered in 1939)

660.51

4. From point in Witt north to Cleveland, Cincinnati, Chicago & St. Louis Railway station (by S. R. Archer in 1937)

[A jog from Coffeen quadrangle, line 7]

U. S. C. & G. S. standard disk stamped "L 93 1935"

665.573

[Continued in Coffeen quadrangle, line 7]

5. From point 0.3 mile south and 3.3 miles west from Witt along roads north 0.7 mile, thence west to crossroads 7.1 miles north of Hillsboro (by S. R. Archer in 1937)

[Continued from Coffeen quadrangle, line 7]

Witt, 0.3 mi. N. thence 3.3 mi. W. from, 0.25 mi. E. of NW. cor. sec. 3, T. 9 N., R. 3 W., 235 ft. S. and 85 ft. W. from junction of T-rd. S., in pasture, in root on W. side of 40-in. elm tree; copper nail and washer

641.35

Witt, 0.3 mi. N. thence 4.2 mi. W. from, 0.4 mi. E. of NW. cor. sec. 4, T. 9 N., R. 3 W., 720 ft. E. of jog N. in rd., 620 ft. W. of jog S. in rd., on N. side of rd., at summit of grade, 50 ft. W. of line with W. end of farmhouse on N. side of rd., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "658"¹³

657.873

Witt, 0.3 mi. N. thence 4.6 mi. W. from, near S. cor. secs. 32 and 33, T. 10 N., R. 3 W., 20 ft. N. of T-rd. S., in concrete post; standard tablet stamped "P T Sta No 117 LS 1924 647"¹⁴

646.833

Witt, 0.3 mi. N. thence 5.5 mi. W. from, 580 ft. E. of NW. cor. sec. 5, T. 9 N., R. 3 W., on W. side of creek, 0.2 mi. W. of bridge, at summit of hill, on S. side of rd., 75 ft. W. of line with front entrance of farmhouse, in line with fence W., 2 ft. N. of foot of brace pole of power-line pole, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "616"¹⁵

615.777

¹² In 1939 this bench mark was reset 1 ft. north and 4 ft. east from its original location. The figures given represent the new elevation.

¹³ In 1940 this bench mark was reset at an elevation 0.307 ft. higher than that originally determined and "Reset 1940" was added to the stamping.

¹⁴ In 1940 this bench mark was replaced by a standard tablet stamped "P T S 117 LS 1924 Reset 1940" and set 10 ft. north of this location at an elevation 0.090 ft. higher than that originally determined. The figures given represent the new elevation.

¹⁵ In 1940 this bench mark was replaced by a disk stamped "616 Reset 1940" and set at an elevation 0.030 ft. higher than that originally determined. The figures given represent the new elevation.

Witt, 0.3 mi. N. thence 5.8 mi. W. from, 7.1 mi. N. thence 1.6 mi. E. from Hillsboro, 980 ft. W. of SE. cor. sec. 31, T. 10 N., R. 3 W., 340 ft. E. of line with E. side of residence, on E. side of driveway to barn lot, 2 ft. S. and 6 ft. E. from fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "638" ¹⁶	Feet 637.825
Hillsboro, 7.1 mi. N. thence 1.0 mi. E. from, near SE. cor. sec. 36, T. 10 N., R. 4 W., 150 ft. W. of crossroads, on N. side of rd., at fence line, in root on NW. side of 48-in. locust tree; copper nail and washer-----	629.60
Hillsboro, 7.1 mi. N. thence 0.4 mi. E. from, about 740 ft. W. of S $\frac{1}{4}$ cor. sec. 36, T. 10 N., R. 4 W., on N. side of rd., 1 ft. S. of fence, opposite and 90 ft. E. of gate to yard of farmhouse, opposite and 35 ft. E. of driveway, 13 ft. E. of 18-in. hedge tree and E. side of gate, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "634" (recovered in 1939) ¹⁷ -----	633.896
6. From point 1.8 miles south and 2.6 miles east from Vanderville, along roads west 0.1 mile, thence south to point 2.7 miles northeast of Nokomis (by W. C. Elledge in 1939)	
[Connects with line 7 in Pana quadrangle]	
Nokomis, 2.7 mi. NE. thence 3.9 mi. N. from, near NW. cor. sec. 30, T. 11 N., R. 1 W., 30 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 108 LS 1924"-----	668.725
Nokomis, 2.7 mi. NE. thence 3.7 mi. N. from, 0.25 mi. S. of NW. cor. sec. 30, T. 11 N., R. 1 W., 24 ft. E. of rd., 3 ft. W. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	665.004
Nokomis, 2.7 mi. NE. thence 2.1 mi. N. from, 0.2 mi. N. of SE. cor. sec. 36, T. 11 N., R. 2 W., 560 ft. S. of steel bridge, 21 ft. W. of rd., in concrete post; U. S. C. & G. S. and State Survey standard disk-----	663.320
Nokomis, 2.7 mi. NE. thence 1.9 mi. N. from, near NW. cor. sec. 6, T. 10 N., R. 1 W., 21 ft. S. and 24 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	667.310
Nokomis, 2.7 mi. NE. thence 0.8 mi. N. from, 500 ft. S. of NW. cor. sec. 7, T. 10 N., R. 1 W., on E. side of rd., 12 ft. N. of NW. corner of farm-yard, in root on S. side of 20-in. maple tree; copper nail and washer-----	671.91
U. S. C. & G. S. standard disk stamped "E 93 1935"-----	670.159
7. From point 2.7 miles northeast thence 0.8 mile north from Nokomis along roads alternately west and south to point 0.2 mile south and 3.3 miles east from Witt (by W. C. Elledge in 1939)	
Nokomis, 1.2 mi. NE. thence 1.8 mi. N. from, 0.25 mi. E. of NE. cor. sec. 11, T 10 N., R. 2 W., 21 ft. S. and 6 ft. W. from center line of rd. in line with fence S., in concrete post; U. S. C. & G. S. and State Survey standard disk-----	666.160
Nokomis, 1.2 mi. NE. thence 1.5 mi. N. from, near NE. cor. sec. 11, T. 10 N., R. 2 W., 10 ft. S. and 20 ft. W. from T-junction of N.-S. rd., near Avoca School, in concrete post; standard tablet stamped "P T Sta No 107 LS 1924"-----	668.196

¹⁶ In 1940 this bench mark was replaced by a disk stamped "638 Reset 1940" and set at an elevation 0.015 ft. lower than that originally determined. The figures given represent the new elevation.

¹⁷ In 1940 this bench mark was replaced by a disk stamped "634 Reset 1940" and set at an elevation 0.100 ft. lower than that originally determined. The figures given represent the new elevation.

	Feet
U. S. C. & G. S. standard disk stamped "F 93 1935"-----	668. 335
Nokomis, near E. limits of, near NW. cor. sec. 24, T. 10 N., R. 2 W., 24 ft. S. and 17 ft. E. from crossroads, in field, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	686. 525
Nokomis, 0.7 mi. S. thence 1.0 mi. E. from, near SW. cor. sec. 24, T. 10 N., R. 2 W., 90 ft. N. and 22 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 106 LS 1924"-----	753. 343
Nokomis, 1.7 mi. S. thence 1.0 mi. E. from, near NW. cor. sec. 36, T. 10 N., R. 2 W., 18 ft. S. and 38 ft. E. from crossroads, at fence corner, on concrete right-of-way post; painted square-----	745. 83
Nokomis, 1.7 mi. S. thence 0.2 mi. E. from, 0.25 mi. E. of SW. cor. sec. 26, T. 10 N., R. 2 W., 16 ft. N. and 12 ft. E. from center line of rd. in line with fences N. and S., in concrete post; U. S. C. & G. S. and State Survey standard disk-----	730. 423
Nokomis, 1.8 mi. S. of, 0.3 mi. S. and 0.8 mi. E. from Coalton, about 300 ft. S. of N. cor. secs. 34 and 35, T. 10 N., R. 2 W., 18 ft. N. and 39 ft. E. from NE. corner of Oak Grove School, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	733. 211
Nokomis, 2.7 mi. S. of, near NW. cor. sec. 2, T. 9 N., R. 2 W., 10 ft. S. and 21 ft. E. from crossroads, on angle in S. head wall of concrete culvert; chiseled square-----	742. 68.
Nokomis, 3.4 mi. S. of, 0.25 mi. N. of SW. cor. sec. 2, T. 9 N., R. 2 W., 14 ft. S. and 14 ft. E. from center line of rd. in line with fence W., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "32 10 1934"-----	728. 446
[Connects with line 7 in Coffeen quadrangle]	
8. From crossroads 2.7 miles northeast and 3.7 miles north from Nokomis generally west along roads to crossroads 1.5 miles north and 2 miles east from Harvel (by W. C. Elledge in 1939)	
Nokomis, 1.2 mi. NE. thence 4.5 mi. N. from, near SW. cor. sec. 24, T. 11 N., R. 2 W., 40 ft. N. and 200 ft. E. from junction of T-rd. E., near SW. corner of scales, in root on S. side of 24-in. maple tree; copper nail and washer-----	663. 54
Nokomis, 1.2 mi. NE. thence 4.0 mi. N. from, near W $\frac{1}{4}$ cor. sec. 25, T. 11 N., R. 2 W., 21 ft. E. of T-rd. W., in concrete post; U. S. C. and G. S. and State Survey standard disk-----	642. 742
Nokomis, 4.8 mi. N. of, 2.9 mi. N. of Wenonah, near E $\frac{1}{4}$ cor. sec. 27, T. 11 N., R. 2 W., 129 ft. S. and 19 ft. W. from crossroads, on W. end of concrete culvert; chiseled square-----	652. 30
Nokomis, 4.8 mi. N. thence 1.0 mi. W. from, near E $\frac{1}{4}$ cor. sec. 28, T. 11 N., R. 2 W., 20 ft. S. and 20 ft. W. from junction of T-rd. S., 40 ft. E. of bridge, in concrete post; standard tablet stamped "P T Sta No 111 LS 1924"-----	629. 391
Nokomis, 5.0 mi. N. and 2.0 mi. W. from, 8.0 mi. N. thence 1.0 mi. E. from Witt, 0.25 mi. S. of NE. cor. sec. 29, T. 11 N., R. 2 W., 21 ft. N. and 21 ft. W. from junction of T-rd. W., in concrete post; U. S. C. & G. S. and State Survey standard disk-----	644. 27
Witt, 8.0 mi. N. of, 0.25 mi. S. of cor. secs. 19, 20, 29, and 30, T. 11 N., R. 2 W., 27 ft. S. and 95 ft. W. from crossroads, in root on NW. side of 24-in. maple tree; copper nail and washer-----	633. 15

	Feet
Witt, 8.2 mi. N. and 1.0 mi. W. from, 3.0 mi. S. thence 5.0 mi. E. from Morrisonville, near cor. secs. 19, 24, 25, and 30, T. 11 N., R. 2 and 3 W., 30 ft. N. and 25 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "P T Sta No 112 LS 1924"-----	639. 244
Morrisonville, 3.0 mi. S. thence 4.0 mi. E. from, near NE. cor. sec. 26, T. 11 N., R. 3 W., 28 ft. S. and 45 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	634. 422
Morrisonville, 3.0 mi. S. thence 3.0 mi. E. from, near NW. cor. sec. 26, T. 11 N., R. 3 W., 33 ft. S. and 18 ft. E. from crossroads, on N. end of W. head wall of small bridge; chiseled square-----	632. 85
Morrisonville, 3.0 mi. S. thence 2.0 mi. E. from, near cor. sec. 27, T. 11 N., R. 3 W., 12 ft. S. and 24 ft. E. from crossroads, on S. head wall of concrete culvert; chiseled square-----	630. 61
Morrisonville, 3.0 mi. S. thence 1.0 mi. E. from, near cor. secs. 20, 21, 28, and 29, T. 11 N., R. 3 W., 20 ft. S. and 28 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk-----	627. 715
Morrisonville, 3.0 mi. S. of, near SW. cor. sec. 20, T. 11 N., R. 3 W., 28 ft. N. and 38 ft. E. from crossroads, in root on NE. side of 24-in. hedge tree; copper nail and washer-----	629. 96
Morrisonville, 3.0 mi. S. thence 1.0 mi. W. from, 1.5 mi. N. thence 3.0 mi. E. from Harvel, near W. cor. secs. 19 and 30, T. 11 N., R. 3 W., 25 ft. N. and 25 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "P T Sta No 114 LS 1924"-----	628. 718
9. From crossroads 1.5 miles north and 2 miles east from Harvel generally south along roads to crossroads 7.1 miles north of Hillsboro (by W. C. Elledge in 1939) ¹⁸	
Harvel, 2.0 mi. E. of, near W 1/4 cor. sec. 36, T. 11 N., R. 4 W., 110 ft. S. of junction of T-rd. W., on E. side of rd., 24 ft. S. and 33 ft. E. from SW. corner of yard, in root on S. side of 20-in. maple tree; copper nail and washer-----	634. 15
Harvel, 2.0 mi. E. thence 1.5 mi. S. from, 4.3 mi. E. thence 1.0 mi. N. from Raymond, near SE. cor. sec. 2, T. 10 N., R. 4 W., 20 ft. N. and 36 ft. W. from crossroads, in root on E. side of 12-in. hedge tree; copper nail and washer-----	630. 14
Raymond, 5.3 mi. E. thence 1.0 mi. N. from, near NE. cor. sec. 12, T. 10 N., R. 4 W., 40 ft. S. and 10 ft. W. from crossroads, in concrete post; standard tablet stamped "P T Sta No 115 LS 1924"-----	632. 040
Raymond, 5.3 mi. E. of, near NW. cor. sec. 18, T. 10 N., R. 3 W., 40 ft. S. and 16 ft. E. from junction of T-rd. E., at angle on S. head wall of concrete culvert; chiseled square-----	637. 89
Raymond, 4.3 mi. E. thence 0.2 mi. S. from, 800 ft. S. of NE. cor. sec. 14, T. 10 N., R. 4 W., 15 ft. W. of rd., in root on E. side of 24-in. elm tree; copper nail and washer-----	633. 06
Raymond, 4.3 mi. E. thence 1.0 mi. S. from, near SW. cor. sec. 13, T. 10 N., R. 4 W., 36 ft. N. and 46 ft. E. from crossroads, in concrete post; standard tablet stamped "P T Sta No 116 LS 1924 Reset 1938"-----	633. 100
Raymond, 4.3 mi. E. thence 2.0 mi. S. from, 9.1 mi. N. of Hillsboro, near NW. cor. sec. 25, T. 10 N., R. 4 W., 23 ft. S. and 66 ft. E. from junction of T-rd. E., in root on N. side of 18-in walnut tree; nail and washer-----	636. 20

¹⁸ This line follows much of the route of line 2.

MOUNT STERLING QUADRANGLE

[Latitude $39^{\circ}45'$ – $40^{\circ}00'$; longitude $90^{\circ}45'$ – $91^{\circ}00'$]

ADAMS, BROWN, AND PIKE COUNTIES

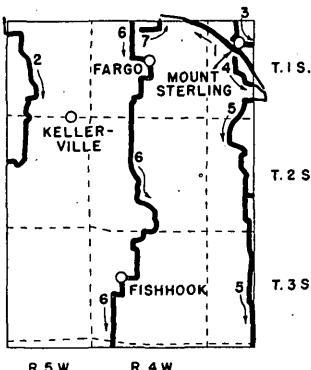


FIGURE 136.—Lines of leveling in Mount Sterling quadrangle.

1. Northwest along Wabash Railway from point 1.6 miles southeast to point 2.6 miles northwest of Mount Sterling (by R. G. Clinite in 1914)

[Continued from Meredosia quadrangle, line 1]

Mount Sterling, 0.8 mi. NW. of sta., 80 ft. E. of track, 30 ft. N. of U. S. Highway 24, 4 ft. S. of fence; standard iron post with bronze cap stamped "711" (recovered by U. S. C. & G. S. in 1933) –

Feet
710.232

[Continued in Augusta quadrangle, line 1]

2. From point near center of sec. 8, T. 1 S., R. 5 W., east, south, and west along roads to point near center of sec. 17, T. 2 S., R. 5 W. (by V. S. Seward in 1922)

[Continued from Liberty quadrangle, line 6]

T. 1 S., R. 5 W., near center of SW $\frac{1}{4}$ sec. 9, 20 ft. N. of junction of T-rd. S.; standard iron post with bronze cap stamped "S 1922 735"

734.313

Reference mark, 50 ft. W. of iron post, on base of concrete fence post; chiseled square

733.52

T. 1 S., R. 5 W., near center of NE $\frac{1}{4}$ sec. 28, 60 ft. E. of Walnut Fork, 15 ft. E. of junction of rd. W.; standard iron post with bronze cap stamped "S 1922 635"

634.389

T. 1 S., R. 5 W., near SW. cor. sec. 27, 40 ft. N. and 20 ft. E. from junction of T-rd. N., in root of 8-in. Osage-orange tree; copper nail and washer

758.29

T. 2 S., R. 5 W., 0.2 mi. NE. of center of sec. 4, 2.5 mi. W. of Keller-ville, 30 ft. N. of junction of T-rd. S.; standard iron post with bronze cap stamped "S 1922 704"

703.664

T. 2 S., R. 5 W., near center of sec. 9, 220 ft. S. of creek, 20 ft. W. of rd., in root of 24-in. cottonwood tree; copper nail and washer

614.12

T. 2 S., R. 5 W., 0.15 mi. NE. of center of sec. 16, 50 ft. N. of stream, at rd. junction, in root of 36-in. elm tree; copper nail and washer--	Feet
T. 2 S., R. 5 W., 0.25 mi. E. of center of sec. 17, 50 ft. E. of rd. junction, in root of 18-in. oak tree; copper nail and washer-----	587.57

673.50

[Continued in Liberty quadrangle, line 7]

3. From point 1 mile north of Mount Sterling south and east along roads and streets to point 0.8 mile east of Mount Sterling (by F. L. Shalibo in 1923)

[Continued from Augusta quadrangle, line 2]

Mount Sterling, at N. limits of, 0.25 mi. S. of center of sec. 8, T. 1 S., R. 3 W., 820 ft. N. of street intersection, 35 ft. W. of Mount Sterling-Camden rd., on embankment opposite frame cottage on E. side of rd., 2 ft. E. of wire fence; standard iron post with bronze cap stamped "Prim Trav Sta No 14 1914 S 23 1923" (recovered in 1925) -----	705.539
--	---------

Mount Sterling, in E. part of town, in SW. angle of junction of Main Street and alley, opposite yellow church, on corner of concrete walk, at base of light post; chiseled square (recovered in 1925)---	739.64
--	--------

[Continued in Meredosia quadrangle, line 2]

4. From Mount Sterling south and southeast along roads to point 0.6 mile northwest of Hersman (by G. F. Williams in 1925)

Mount Sterling, at W. limits of, in NE. angle of crossroads, in line with center of street SE., on top of SE. concrete wing wall of highway culvert; chiseled square-----	714.82
---	--------

Mount Sterling, at SW. corner of intersection of Capital and Main Streets, at Main Street entrance to First National Bank Building, on E. end of first step; chiseled square-----	739.98
---	--------

Mount Sterling, 0.2 mi. S. of Wabash Ry. sta., near center of sec. 17, T. 1 S., R. 3 W., 300 ft. S. of angle from SW. to S. in rd., on W. side of rd., at N. post of N. gate to field, on concrete base; chiseled square-----	711.01
---	--------

Mount Sterling, 1.3 mi. S. and 0.5 mi. E. from, 0.25 mi. N. of S. cor. secs. 20 and 21, T. 1 S., R. 3 W., on E. side of rd., at junction of rd. W., in fence line E., on concrete base of square concrete post; highest point within chiseled square-----	702.72
---	--------

Mount Sterling, 1.8 mi. S. and 0.6 mi. E. from, 1.0 mi. NW. of Hersman, 0.25 mi. S. and 0.1 mi. E. from NW. cor. sec. 28, T. 1 S., R. 3 W., 75 ft. S. of junction of T-rd. E., 40 ft. W. of rd., in pasture, in root on N. side of 18-in. oak tree; copper nail and washer-----	698.91
---	--------

[Continued in Meredosia quadrangle, line 5]

5. From point 0.5 mile south and 0.5 mile west from Hersman along roads west 0.5 mile, thence generally south to point 2.3 miles south of Perry (by G. F. Williams in 1925)

[Continued from Meredosia quadrangle, line 5]

Hersman, 0.5 mi. S. and 1.0 mi. W. from, 2.5 mi. S. and 0.5 mi. E. from Mount Sterling, near NE. cor. sec. 32, T. 1 S., R. 3 W., in SE. corner of crossroads, at fence corner, in root on E. side of 12-in. black-oak tree; copper nail and washer-----	693.31
---	--------

T. 1 S., R. 3 W., near center of SE $\frac{1}{4}$ sec. 32, at junction of private rd. E., on W. side of rd., 20 ft. W. of fence line, in root on E. side of 30-in. walnut tree; copper nail and washer-----	693.82
---	--------

770 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
T. 2 S., R. 3 W., near center of SW $\frac{1}{4}$ sec. 5, 100 ft. N. of crossroads, on top of S. end of concrete head wall of culvert; chiseled square	680.10
T. 2 S., R. 3 W., near center of NW $\frac{1}{4}$ sec. 8, 20 ft. N. and 20 ft. E. from junction of rd. SW., in concrete post; standard tablet stamped "Prim Trav Sta No 43 W 1923 GW 2 1925"	686.024
Reference mark, 120 ft. W. of tablet, on N. side of rd., 3 ft. S. of fence, in root on N. side of 14-in. wild-cherry tree; copper nail and washer	684.69
T. 2 S., R. 3 W., 0.12 mi. NW. of SE. cor. sec. 8, 40 ft. E. of angle W. in rd., on E. side of junction of rd. SE., at fence line, in root on N. side of 12-in. walnut tree; copper nail and washer	669.58
T. 2 S., R. 3 W., 0.25 mi. E. of center of sec. 17, 30 ft. W. of rd., 5 ft. W. of fence line, on N. side of driveway to farmyard, in root on E. side of 14-in. oak tree; copper nail and washer	625.20
T. 2 S., R. 3 W., 0.35 mi. S. of NW. cor. sec. 21, 180 ft. SE. of junction of rd. NW., at bridge over McKee Creek, on W. end of S. limestone abutment; chiseled square	489.48
T. 2 S., R. 3 W., near NW. cor. sec. 28, 35 ft. N. and 40 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 44 W 1923 GW 3 1925" (recovered in 1927)	689.185
Reference mark, 810 ft. SW. of tablet, on W. side of rd., at fence, in root on E. side of 14-in. oak tree; copper nail and washer	688.43
T. 2 S., R. 3 W., 0.25 mi. N. of SE. cor. sec. 29, 20 ft. E. of rd., at junction of T-rd. W., 10 ft. N. of corner concrete post of E. fence line, on top of concrete base of brace rod; chiseled square	686.31
T. 2 S., R. 3 W., near SW. cor. sec. 28, at Hebron Church, in NE. angle of rd. junction, in SW. corner of churchyard, in root on SW. side of 24-in. oak tree; copper nail and washer	672.01
T. 2 S., R. 3 W., near W $\frac{1}{4}$ cor. sec. 33, on S. side of rd., at E. end of gate to field, in root on NW. side of 15-in. oak tree; copper nail and washer	609.15
T. 3 S., R. 3 W., 0.05 mi. E. of center of NW $\frac{1}{4}$ sec. 4, 0.25 mi. S. of Brown-Pike county line, on top of E. concrete head wall of culvert; chiseled square	564.15
T. 3 S., R. 3 W., 0.15 mi. S. and 0.15 mi. W. from N $\frac{1}{4}$ cor. sec. 9, 15 ft. N. and 15 ft. E. from junction of rd. NE., in concrete post; standard tablet stamped "Prim Trav Sta No 52 W 1923 GW 4 1925"	539.100
Reference mark, 135 ft. S. of tablet, on top of NW. wing wall of concrete culvert; chiseled square	535.84
T. 3 S., R. 3 W., 0.25 mi. E. of SW. cor. sec. 9, on W. side of rd., on top of concrete head wall of culvert; chiseled square	591.84
T. 3 S., R. 3 W., 0.25 mi. W. of center of sec. 16, at iron bridge over creek, on top of NW. end of SE. concrete wing wall; chiseled square	504.11
T. 3 S., R. 3 W., near center of SW $\frac{1}{4}$ sec. 16, 0.4 mi. W. thence 1.1 mi. N. from Perry, at bridge over McKee Creek, on top of E. end of S. concrete abutment; chiseled square	504.44
Perry, 0.4 mi. W. of, 0.15 mi. S. of center of SW $\frac{1}{4}$ sec. 21, T. 3 S., R. 3 W., 70 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 53 W 1923 GW 5 1925"	559.533
Reference mark, 325 ft. N. of tablet, on top of E. head wall of concrete culvert under rd. N.; chiseled square	550.93

Perry, in W. part of, 25 ft. N. and 10 ft. E. from junction of T-rd. S., 40 ft. E. of cross walk, 20 ft. S. of curb around yard, in root on S. side of first maple tree in group; copper nail and washer-----	<i>Feet</i> 587.49
Perry, 1.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 28, T. 3 S., R. 3 W., 75 ft. N. and 25 ft. E. from junction of private rd. E., at fence line, in root on S. side of 24-in. wild-cherry tree; copper nail and washer-----	597.48
Perry, 1.8 mi. S. of, 0.2 mi. S. of center of sec. 33, T. 3 S., R. 3 W., at angle in rd. SW., on top of SE. concrete wing wall of culvert; chiseled square-----	528.72

[Continued in Pittsfield quadrangle, line 9]

6. From point 0.4 mile south of Timewell generally south along
roads by way of Fargo, Benville, and Fishhook to point 1.5
miles north and 0.7 mile east from Baylis (by G. F. Williams
in 1925; leveled twice between Benville and end of line)

[Continued from Augusta quadrangle, line 3]

Timewell, 0.8 mi. S. of, 1.0 mi. W. thence 1.5 mi. N. from Fargo, near W $\frac{1}{4}$ cor. sec. 9, T. 1 S., R. 4 W., in SE. angle of junction of T-rd. E., in fence corner, on concrete base of round corner post; chiseled square-----	745.74
Fargo, 1.0 mi. W. thence 1.0 mi. N. from, 50 ft. N. of SW. cor. sec. 9, T. 1 S., R. 4 W., in NE. angle of crossroads, on top of NE. wing wall of concrete culvert; chiseled square-----	732.16
Fargo, 1.0 mi. W. of, near NW. cor. sec. 21, T. 1 S., R. 4 W., 25 ft. S. and 20 ft. E. from junction of T-rd. N., at fence line, in root on E. side of 30-in. willow tree; copper nail and washer-----	742.16
Fargo, at junction of T-rd. W., near W. cor. secs. 15 and 21, T. 1 S., R. 4 W., 20 ft. E. of N.-S. rd., 20 ft. S. of driveway, in fence corner, in concrete post; standard tablet stamped "7 GW 1925"-----	746.910
Reference mark, 145 ft. W. of tablet, in SW. corner of churchyard, in root on SW. side of 36-in. maple tree; copper nail and washer-----	747.14
Fargo, 0.5 mi. S. of, near E $\frac{1}{4}$ cor. sec. 21, T. 1 S., R. 4 W., in NW. angle of crossroads, on top of W. end of iron pipe culvert under rd. N.; chiseled cross-----	740.34
Fargo, 2.0 mi. S. and 0.9 mi. W. from, 0.1 mi. E. of SW. cor. sec. 28, T. 1 S., R. 4 W., 25 ft. N. and 40 ft. E. from junction of T-rd. S., at rail gate, in root on E. side of 36-in. oak tree; copper nail and washer-----	730.06
Fargo, 3.2 mi. S. and 1.0 mi. W. from, 5.4 mi. along winding rd. N. of Benville, 0.25 mi. S. of NE. cor. sec. 5, T. 2 S., R. 4 W., at junction of T-rd. E., on W. side of rd., at fence line, in concrete post; standard tablet stamped "8 GW 1925"-----	715.770
Reference mark, 170 ft. S. of tablet, on E. side of rd., 20 ft. N. of fence corner, inside fence, in root on N. side of 12-in. maple tree; copper nail and washer-----	714.99
Benville, 5.3 mi. N. of, 0.15 mi. N. of E $\frac{1}{4}$ cor. sec. 5, T. 2 S., R. 4 W., in SW. angle of junction of T-rd. W., on top of W. head wall of concrete culvert; chiseled square-----	691.61
Benville, 5.0 mi. N. of, 0.15 mi. S. of E $\frac{1}{4}$ cor. sec. 5, T. 2 S., R. 4 W., 30 ft. S. of junction of T-rd. E., on top of N. end of W. concrete head wall of culvert; chiseled square-----	665.40
Benville, 3.5 mi. N. of, 0.14 mi. W. of NE. cor. sec. 17, T. 2 S., R. 4 W., at junction of rd. E., on W. side of rd., inside fence, in root on NW. side of twin-oak trees; copper nail and washer-----	604.91

	Feet
Benville, 3.3 mi. N. of, 0.25 mi. SW. of NE. cor. sec. 17, T. 2 S., R. 4 W., 45 ft. N. of junction of second-class rd. W., on E. side of rd., at N. end of gate to field, in notch on W. side of 20-in. maple tree; copper nail and washer-----	570.44
Benville, 2.2 mi. N. of, 0.15 mi. E. of SW. cor. sec. 16, T. 2 S., R. 4 W., at junction of creeks, on S. bank, 15 ft. W. of rd. at ford, in notch on NE. side of 3-in. walnut tree; copper nail and washer-----	549.07
Benville, 0.5 mi. NW. of, near center of NW $\frac{1}{4}$ sec. 28, T. 2 S., R. 4 W., 120 ft. N. of junction of rd. NW., in root on W. side of 36-in. oak tree standing in rd.; copper nail and washer-----	735.40
Benville, 0.2 mi. W. of, in NW $\frac{1}{4}$ sec. 28, T. 2 S., R. 4 W., at junction of rd. SW., opposite schoolhouse, on top of N. concrete head wall of culvert; chiseled square-----	721.04
Benville, near center of sec. 28, T. 2 S., R. 4 W., 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 46 W 1923 GW 9 1925"-----	745.972
Reference mark, 45 ft. NE. of tablet, on concrete sill at N. end of red barn; chiseled square-----	745.02
Benville, 1.5 mi. SE. of, 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 34, at junction of second-class rd. E., in root of 12-in. hickory tree; copper nail and washer-----	547.30
Benville, 1.8 mi. SE. of, near center of SW $\frac{1}{4}$ sec. 34, T. 2 S., R. 4 W., 0.2 mi. N. of Brown-Pike county line, at Shinnebarger Bridge over McKee Creek, on SE. pier, on bolt head; chiseled cross-----	521.75
Benville, 2.8 mi. SE. of, 3.8 mi. NE. of Fishhook, near N $\frac{1}{4}$ cor. sec. 4, T. 3 S., R. 4 W., near Wilson Ford across McKee Creek, in SW. angle of rd. junction, on S. side of rd. at angle SE., on N. bank of stream, in notch on N. side of 12-in. elm tree; copper nail and washer-----	522.61
Fishhook, 3.0 mi. NE. of, near E $\frac{1}{4}$ cor. sec. 5, T. 3 S., R. 4 W., 245 ft. N. of junction of rd. W., 20 ft. S. of fence corner, on W. side of rd., at fence line, in concrete post; standard tablet stamped "10 GW 1925"-----	576.070
Reference mark, 245 ft. S. of tablet, at junction of rd. W., on S. bank of stream, in root on NE. side of 24-in. oak tree standing in rd.; copper nail and washer-----	569.34
Fishhook, 0.8 mi. SE. thence 1.0 mi. N. from, 0.25 mi. W. of center of sec. 9, T. 3 S., R. 4 W., in SE. angle of offset crossroads, 30 ft. S. of E.-W. rd., 50 ft. W. of rd. N., at culvert under rd. S., on top of NE. wing wall; chiseled square-----	687.01
Fishhook, 0.8 mi. SE. of, 0.2 mi. SE. of W $\frac{1}{4}$ cor. sec. 16, T. 3 S., R. 4 W., 220 ft. W. of junction of rd. N., on N. side of Quincy rd., on top of N. concrete head wall of culvert; chiseled square-----	700.82
Fishhook, near center of sec. 17, T. 3 S., R. 4 W., at junction of rd. S., at SW. corner of Kiefer store, on second step; chiseled square-----	756.10
Fishhook, 1.0 mi. S. of, near center of sec. 20, T. 3 S., R. 4 W., in SW. angle of crossroads, 10 ft. W. of fence corner, in concrete post; standard tablet stamped "11 GW 1925"-----	790.537
Reference mark, 170 ft. N. of crossroads, on top of W. concrete head wall of culvert; chiseled square-----	785.82
Fishhook, 1.0 mi. S. and 0.5 mi. W. from, near quarter corner between secs. 19 and 20, T. 3 S., R. 4 W., at junction of T-rd. S., on N. side of rd., at E. end of gate to field, in fence line, in root on SE. side of 8-in. Osage-orange tree; copper nail and washer-----	784.73

Fishhook, 2.0 mi. S. and 0.5 mi. W. from, near E $\frac{1}{4}$ cor. sec. 30, T. 3 S., R. 4 W., at junction of T-rd. E., 10 ft. W. of fence corner, in root on N. side of 18-in. maple tree; copper nail and washer-----	Feet 783.84
Fishhook, 3.0 mi. S. and 0.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 32, T. 3 S., R. 4 W., on E. side of rd., on S. bank of stream, in root on SW. side of 12-in. birch tree; copper nail and washer-----	708.58
Fishhook, 3.4 mi. S. and 0.5 mi. W. from, 2.9 mi. N. and 0.7 mi. E. from Baylis, near N. cor. secs. 5 and 6, T. 4 S., R. 4 W., at junction of second-class rd. W., at fence corner, on circular concrete base of corner post; chiseled square-----	774.48

[Continued in Pittsfield quadrangle, line 8]

7. From road junction 1.5 miles north and 1 mile west from Fargo east along highway and north along road to point 1.6 miles southeast and 0.3 mile south from Timewell (by G. F. Williams in 1925)

Fargo, 1.5 mi. N. of, 0.1 mi. E. of W $\frac{1}{4}$ cor. sec. 10, T. 1 S., R. 4 W., 200 ft. W. of junction of rd. S., on N. side of highway, at concrete culvert under driveway to garage, on top of E. head wall; chiseled square-----	743.22
Fargo, 1.5 mi. N. and 0.5 mi. E. from, 1.6 mi. SE. thence 0.6 mi. S. from Timewell, near center of sec. 10, T. 1 S., R. 4 W., in NW. angle of junction of T-rd. N., at corner post of fence around yard, on concrete base; chiseled square-----	748.99

[Connects with line 1 in Augusta quadrangle]

NEBO QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $90^{\circ}45'$ – $91^{\circ}00'$]

PIKE AND CALHOUN COUNTIES

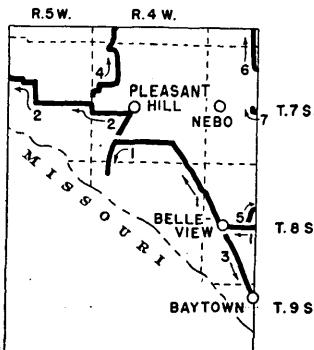


FIGURE 137.—Lines of leveling in Nebo quadrangle.

1. From point 1.8 miles east of Belleview west along road to Belleview, thence northwest 5.4 miles along improved road, thence west 3 miles and southwest 2 miles to point near head of Clarksville Island (by S. R. Archer in 1926)

[Continued from Pearl quadrangle, line 5]

Belleview, 1.7 mi. E. of, near quarter corner between secs. 16 and 21, T. 8 S., R. 3 W., on W. bank of Belleview Creek, in point between rds. at junction, in root on SE. side of 24-in. sycamore tree; copper nail and washer.

Belleview, 1.3 mi. E. of, 0.1 mi. E. of cor. secs. 16, 17, 20 and 21, T. 8 S., R. 3 W., 15 ft. S. and 90 ft. W. from junction of Stearns Hollow rd., 120 ft. E. of E. line of dwelling standing on S. side of rd., at fence line along S. side of rd., in concrete post; standard tablet stamped "4 A 1926".

Reference mark, 100 ft. E. of tablet, 20 ft. S. of rd. junction, in root on E. side of northernmost of two 48-in. sycamore trees; copper nail and washer.

Belleview, 0.5 mi. E. of, at Belleview School, near quarter corner between secs. 17 and 20, T. 8 S., R. 3 W., at junction of rd. S., on N. side of rd., at entrance to schoolhouse, on top of N. end of W. side-wall of concrete steps; chiseled square.

Belleview, at W. edge of, 0.15 mi. W. of E. cor. secs. 18 and 19, T. 8 S., R. 3 W., 45 ft. S. and 20 ft. W. from junction of improved N.-S. rd. and rd. E., 4 ft. N. and 10 ft. E. from SE. corner of dwelling on W. side of rd. junction, in root on NE. side of 15-in. maple tree; copper nail and washer.

Belleview, 1.4 mi. along improved rd. NW. of, 0.1 mi. N. and 0.3 mi. E. from SW. cor. sec. 7, T. 8 S., R. 3 W., 100 ft. N. of center line of rd. NE. in Wildcat Hollow, 100 ft. N. of ford, 30 ft. W. of rd. Junction, 20 ft. N. of lane W., in concrete post; standard tablet stamped "Prim Trav Sta No 168 F 1925".

Feet
534.65

515.663

515.10

498.39

465.89

476.094

	Feet
Reference mark, 35 ft. S. and 130 ft. W. from tablet, 150 ft. W. of improved rd., at S. side of gate to field, in root on W. side of 36-in. maple tree; copper nail and washer-----	475. 38
Bellevieu, 2.3 mi. NW. of, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 12, T. 8 S., R. 4 W., 60 ft. SE. of junction of second-class rd. W., on E. side of improved rd., at N. end of first step below stone wall and third step from bottom of concrete steps to front yard of dwelling, riser of step imprinted "Sept. 9, 1922," on E. corner of tread; chiseled square-----	483. 30
Bellevieu, 3.4 mi. NW. of, 0.25 mi. W. of center of sec. 1, T. 8 S., R. 4 W., 310 ft. S. of ford across Howell Branch, 70 ft. S. of S. traffic lane at triangular junction of rd. E., on W. side of improved rd., in field, in root on NE. side of 48-in. oak tree; copper nail and washer-----	479. 90
Bellevieu, 4.5 mi. NW. of, near center of SE $\frac{1}{4}$ sec. 35, T. 7 S., R. 4 W., 0.4 mi. NW. along rd. from Calhoun-Pike county line, 100 ft. NW. of private rd. SW., on N. bank of creek, on NE. side of rd., in root on S. side of 48-in. cottonwood tree; copper nail and washer-----	480. 09
Bellevieu, 5.4 mi. NW. of, 3.0 mi. along improved rd. SE. of Pleasant Hill, 0.2 mi. W. of quarter corner between secs. 26 and 35, T. 7 S., R. 4 W., 25 ft. N. and 35 ft. W. from junction of rd. W., at corner of cultivated field, in concrete post; standard tablet stamped "Prim Trav Sta No 167 F 1925"-----	476. 973
Pleasant Hill, 2.0 mi. S. and 1.2 mi. E. from, 1.6 mi. E. of Cottonwood School, 0.1 mi. W. of quarter corner between secs. 27 and 34, T. 7 S., R. 4 W., 15 ft. W. of bridge over Bay Creek, on W. bank, at foot of levee, 30 ft. N. of center line of rd., in root on NW. side of 12-in. maple tree; copper nail and washer-----	453. 55
Cottonwood School, 0.7 mi. E. of, near quarter corner between secs. 28 and 33, T. 7 S., R. 4 W., 70 ft. S. of junction of T-rd. S., on E. side of N.-S. rd., 60 ft. S. of NW. corner of yard of dwelling, in fence line along W. side of yard, in root on SW. side of 8-in. forked maple tree; copper nail and washer-----	449. 66
Cottonwood School, 0.2 mi. W. of NE. cor. sec. 32, T. 7 S., R. 4 W., 50 ft. N. and 20 ft. W. from NW. corner of schoolhouse, on S. side of rd., at westernmost of four cottonwood trees, in root on N. side of 42-in. tree; copper nail and washer-----	448. 98
Cottonwood School, 0.6 mi. W. of, 2.2 mi. along Pleasant Hill-Clarksville rd. SW. of Pleasant Hill, 0.25 mi. E. of SW. cor sec. 29, T. 7 S., R. 4 W., 110 ft. E. of rd. junction, on N. side of E.-W. rd., in field, in root on S. side of 10-in. pecan tree; copper nail and washer-----	447. 63
Pleasant Hill, 3.3 mi. along Clarksville rd. SW. of, 0.15 mi. W. of SE. cor. sec. 31, 150 ft. NE. of Calhoun-Pike county line, on SE. side of rd., at southernmost of two elm trees standing 25 ft. apart, in root on SW. side of 15-in. tree; copper nail and washer-----	446. 63
Pleasant Hill, 3.9 mi. SW. of, 0.15 mi. S. and 0.1 mi. W. from E $\frac{1}{4}$ cor. sec. 6, T. 8 S., R. 4 W., 0.1 mi. NE. of bridge over The Sny, 30 ft. S. and 45 ft. W. from junction of rd. SE., in root on N. side of 30-in. maple tree; copper nail and washer-----	446. 82

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Pleasant Hill, 4.1 mi. SW. of, near center of SE $\frac{1}{4}$ sec. 6, T. 8 S., R. 4 W., 0.5 mi. back from left (NE.) bank, 0.9 mi. N. of head of Clarksville Island, 328 ft. SW. of SW. end of bridge over The Sny, 150 ft. NW. of angle in Clarksville rd., on SW. side of private rd. NW.; Mississippi River Comm. B. M. 83/1	Feet
cap on iron pipe-----	447. 550
bolt in tile-----	443. 540
Reference mark, 150 ft. S. of B. M. 83/1, 30 ft. SW. of private rd. NW., in root on NE. side of 36-in. elm tree; copper nail and washer-----	446. 81
2. From point 2.2 miles southwest of Pleasant Hill northeast along Pleasant Hill-Clarksville Road to point near crossing of Chicago & Alton R. R., thence alternately west and north to point near quarter corner between secs. 8 and 17, T. 7 S., R. 5 W. (by S. R. Archer in 1926)	
Pleasant Hill, 1.3 mi. SW. of, 0.15 mi. W. of center of NE $\frac{1}{4}$ sec. 29, T. 7 S., R. 4 W., on SE. side of rd., at fence corner, in root on SW. side of 24-in. elm tree; copper nail and washer-----	447. 91
Pleasant Hill, in SW. part of, near quarter corner between secs. 20 and 21, T. 7 S., R. 4 W., 220 ft. SW. of Chicago & Alton R. R., 30 ft. S. and 45 ft. W. from junction of rd. W., 6 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 166 F 1925 (recovered by U. S. C. & G. S. in 1935)-----	452. 151
Reference mark, 310 ft. W. of tablet, 340 ft. W. of rd. junction, on S. side of E.-W. rd., in field, 4 ft. S. of fence, in root on N. side of 12-in. willow tree; copper nail and washer-----	451. 95
Pleasant Hill, 0.5 mi. SW. thence 1.0 mi. W. from, 60 ft. E. of W $\frac{1}{4}$ cor. sec. 20, T. 7 S., R. 4 W., on S. side of rd., in root on NE. side of 15-in. cottonwood tree; copper nail and washer-----	451. 22
Pleasant Hill, 0.5 mi. SW. thence 1.5 mi. W. from, near center of sec. 19, T. 7 S., R. 4 W., 85 ft. S. of junction of second-class rd. S., on E. side of rd., in root on N. side of twin locust trees; copper nail and washer-----	449. 46
Pleasant Hill, 0.5 mi. SW. thence 2.0 mi. W. from, 0.6 mi. E. of Snyder Pond, near E $\frac{1}{4}$ cor. sec. 24, T. 7 S., R. 5 W., on W. side of range-line rd., 170 ft. S. of junction of rd. E., 125 ft. S. of E.-W. fence line, in field, in root on N. side of small locust tree; copper nail and washer-----	450. 12
Pleasant Hill, 2.4 mi. in air line W. of, near E. cor. secs. 13 and 24, T. 7 S., R. 5 W., 40 ft. S. and 15 ft. W. from junction of range-line rd. and rd. W., 10 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 165 F 1925"-----	451. 671
Reference mark, 60 ft. N. and 95 ft. E. from tablet, 20 ft. N. and 15 ft. E. from rd. junction, at fence line, in root on NW. side of 24-in. elm tree; copper nail and washer-----	452. 50
Pleasant Hill, 4.4 mi. W. of, near cor. secs. 14, 15, 22 and 23, T. 7 S., R. 5 W., 40 ft. S. of rd., in field, 20 ft. S. and 10 ft. E. from fence corner, in root on NW. side of 24-in. red-oak tree; copper nail and washer-----	444. 84
Pleasant Hill, 5.4 mi. in air line W. of, 1.9 mi. along rds. SE. of Sny Church, near W. cor. secs. 15 and 22, T. 7 S., R. 5 W., 400 ft. NW. of W. shore of Barton Pond, on E. side of The Sny, on NE. side of junction of private rd. S. and angle in main rd., in root on SW. side of 24-in. pecan tree; copper nail and washer-----	447. 80

Pleasant Hill, about 6 mi. NW. along C. & A. R. R. from sta., 1.3 mi. SE. of Sny Church, 0.1 mi. N. of quarter corner between secs. 15 and 16, T. 7 S., R. 5 W., 125 ft. S. of R. R. crossing, 30 ft. W. of rd., on N. side of private rd. W., 3 ft. W. of rd., on N. side of private rd. W., 3 ft. N. and 1 ft. E. from corner post of S. right-of-way fence, in concrete post; standard tablet stamped "Prim Trav Sta No 164 F 1925" (recovered by U. S. C. & G. S. in 1935)-----

Feet
444.914

Reference mark, 155 ft. N. of tablet, on E. side of rd., 15 ft. N. of corner of N. right-of-way fence, in root on N. side of 10-in. poplar tree; copper nail and washer-----

444.35

Sny Church, about 700 ft. E. of, 2.6 mi. E. of Pike, 0.15 mi. N. and 0.2 mi. W. from quarter corner between secs. 9 and 16, T. 7 S., R. 5 W., near E. end of bridge over The Sny, on E. side of rd. junction, in root on NW. side of 24-in. elm tree; copper nail and washer-----

447.05

[Continued in Bowling Green quadrangle, line 1.]

3. From Bellevue southeast along improved road to point near Baytown (by S. R. Archer in 1926)

Bellevue, 1.1 mi. SE. of, 0.15 mi. W. of quarter corner between secs. 20 and 29, T. 8 S., R. 3 W., 75 ft. S. of cottage in small clearing on NE. side of rd., at SW. corner of clearing, 7 ft. above rd. level, in root on W. side of 10-in. hickory tree; copper nail and washer-----

466.08

Bellevue, 2.0 mi. SE. of, near center of SE $\frac{1}{4}$ sec. 29, T. 8 S., R. 3 W., 50 ft. NE. of junction of rd. NE. in Infidel Hollow, in E. angle of junction, on N. bank of creek, in root on W. side of 36-in. elm tree; copper nail and washer-----

463.43

Bellevue, 2.5 mi. SE. of, 1.7 mi. NW. of Baytown (Mozier post office), 10 ft. S. and 10 ft. W. from junction of rd. E., 60 ft. N. and 26 ft. W. from ford across West Panther Creek, at top of levee, in concrete post; standard tablet stamped "Prim Trav Sta No 176 F 1925"-----

454.178

Baytown, 0.8 mi. NW. of, 0.2 mi. SW. of N $\frac{1}{4}$ cor. sec. 4, T. 9 S., R. 3 W., 20 ft. N. of drain crossing, on E. side of rd., in crotch of forked sycamore tree; copper nail and washer-----

465.92

Baytown, 0.2 mi. NW. of Baytown Christian Church, 0.15 mi. S. of center of sec. 4, T. 9 S., R. 3 W., 470 ft. N. of highway bridge over Crooked Creek, 35 ft. E. of junction of rd. NE., on S. side of rd., at fence line, in root 10 in. underground, on E. side of 36-in. oak tree; copper nail and washer-----

443.89

Baytown (Mozier post office), 0.2 mi. above (NW. of) principal part of town, 400 ft. SE. of bridge over Crooked Creek, in front of Baytown Christian Church, on NE. side of rd., 5 ft. SE. of elm tree; Mississippi River Comm. B. M. 80/1

458.090

cap on iron pipe-----
bolt in tile-----

454.090

[Continued in Pearl quadrangle, line 6]

4. From point on range-line road 2.4 miles west of Pleasant Hill alternately north and east to intersection of Pleasant Hill-Rockport improved road, thence generally north along road near Six-mile Creek to point 1 mile south and 2.6 miles west from Martinsburg (by J. M. Lawson in 1926)

458.94

Stockland School, 1.1 mi. W. of, 0.1 mi. N. of center of NW $\frac{1}{4}$ sec. 18, T. 7 S., R. 4 W., 50 ft. N. and 30 ft. E. from junction of rd. E., in SW. corner of yard, in root on S. side of 24-in. elm tree; copper nail and washer-----

778. SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Stockland School, about 500 ft. NW. of, 1.5 mi. NW. of Pleasant Hill, 0.25 mi. E. of NW. cor. sec. 17, T. 7 S., R. 4 W., 85 ft. NE. of cross-roads, 90 ft. NW. and 85 ft. NE. from NW. end of bridge over Six-mile Creek, in root on S. side of 50-in. oak tree; copper nail and washer	470. 88
Stockland School, 1.1 mi. N. of, 0.25 mi. E. of NW. cor. sec. 8, T. 7 S., R. 4 W., 30 ft. S. and 20 ft. E. from junction of T-rd. E., 20 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "1 L 1926"	504. 113
Reference mark, 20 ft. N. of tablet, at fence corner, in root on NW. side of elm tree; copper nail and washer	505. 43
Stockland School, 2.5 mi. by rd. NW. of, 4.5 mi. SW. of Martinsburg, 0.1 mi. W. of NE. cor. sec. 6, T. 7 S., R. 4 W., on W. side of Six-mile Creek, 25 ft. E. of junction of second-class rd. W., 3 ft. SW. of small triple-forked sycamore tree; in root on SW. side of sycamore tree; copper nail and washer	512. 93
[Continued in Pittsfield quadrangle, line 10]	
5. From point 1.3 miles east of Bellevue northeast along road in Stearns Hollow to point near north quarter corner sec. 16, T. 8 S., R. 3 W. (by J. M. Lawson in 1926)	
Bellevue, 1.3 mi. E. thence 1.2 mi. NE. from, 0.12 mi. SE. of N $\frac{1}{4}$ cor. sec. 16, T. 8 S., R. 3 W., about 200 ft. E. of dwelling on NW. side of rd. in Stearns Hollow, on NW. bank of creek, on SE. side of rd., in root on W. side of 24-in. hickory tree; copper nail and washer	577. 18
[Continued in Pearl quadrangle, line 9]	
6. From point 0.25 mile northeast of center of sec. 9, T. 7 S., R. 3 W., northwest 0.2 mile, thence north 2.1 miles to point near north quarter corner sec. 33, T. 6 S., R. 3 W. (by J. M. Lawson in 1926)	
[Continued from Pearl quadrangle, line 9]	
Nebo, 3.5 mi. by rds. NE. of, 0.15 mi. S. of N $\frac{1}{4}$ cor. sec. 9, T. 7 S., R. 3 W., 10 ft. N. and 45 ft. E. from junction of rd. N., 20 ft. E. of culvert, 35 ft. S. of SW. corner of abandoned house, 1 ft. S. of fence, in concrete post; standard tablet stamped "2 L 1926"	538. 643
Reference mark, 10 ft. N. and 85 ft. W. from tablet, 40 ft. W. of rd. junction, in line with rd. SE., in root on NE. side of 15-in. oak tree; copper nail and washer	539. 84
T. 6 S., R. 3 W., near S $\frac{1}{4}$ cor. sec. 33, 0.5 mi. E. of Franklin School, 50 ft. N. and 30 ft. W. from intersection of town-line rd., along fence line, in root on E. side of lone 24-in. sycamore tree; copper nail and washer	535. 90
T. 6 S., R. 3 W., near center of sec. 33, 10 ft. S. and 35 ft. E. from junction of private rd. E., in root on N. side of twin elm trees; copper nail and washer	575. 39
[Connects with line 4 in Pittsfield quadrangle]	
7. Along roads west and north in sec. 21, T. 7 S., R. 3 W., about 2 miles east of Nebo (by W. C. Elledge in 1936; leveled twice)	
[Connects with line 9 in Pearl quadrangle]	
Nebo, 2.1 mi. E. of, near center of N $\frac{1}{2}$ sec. 21, T. 7 S., R. 3 W., 300 ft. E. of junction of rd. N., on top of center of N. head wall of concrete bridge; chiseled square	533. 54
U. S. C. & G. S. standard disk stamped "Q 81 1935"	576. 567

OQUAWKA QUADRANGLE

[Latitude $40^{\circ}45' - 41^{\circ}00'$; longitude $90^{\circ}45' - 91^{\circ}00'$]

HENDERSON AND WARREN COUNTIES

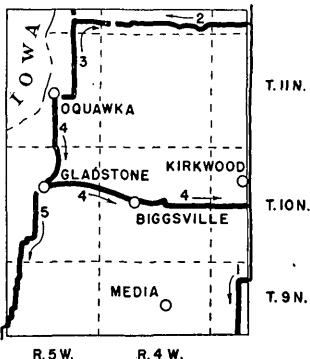


FIGURE 138.—Lines of leveling in Oquawka quadrangle.

1. From point 1.5 miles east of Smithshire west along road 0.5 mile, thence south 3 miles to point near south quarter corner sec. 20, T. 9 N., R. 3 W. (by S. R. Archer in 1921)

[Continued from Monmouth quadrangle, line 6]

Smithshire, 1.0 mi. E. of, 5.1 mi. S. thence 0.5 mi. W. from Kirkwood, near $N\frac{1}{4}$ cor. sec. 8, T. 9 N., R. 3 W., in SW. angle of junction of T-rd. S., at culvert under rd. S., on top of right-angle corner of W. concrete head wall; chiseled square

Feet
729.22

Smithshire, 1.0 mi. E. thence 0.5 mi. S. from, near center of sec. 8, T. 9 N., R. 3 W., 35 ft. NW. of junction of T-rd. E., on W. side of rd. N., in root on E. side of 48-in. maple tree; copper nail and washer

744.50

Smithshire, 1.0 mi. E. thence 1.0 mi. S. from, near $S\frac{1}{4}$ cor. sec. 8, T. 9 N., R. 3 W., 60 ft. E. of junction of T-rd. E., on N. side of rd., 25 ft. E. of SW. corner of yard of dwelling, in yard, in root on S. side of 36-in. maple tree; copper nail and washer

734.14

Smithshire, 1.0 mi. E. thence 2.0 mi. S. from, near $N\frac{1}{4}$ cor. sec. 20, T. 9 N., R. 3 W., 30 ft. S. and 40 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 4 1914 722"

720.396

Reference mark, 110 ft. N. and 75 ft. W. from iron post, 50 ft. N. of fence corner, on W. side of fence, in root on SE. side of 12-in. elm tree; copper nail and washer

717.68

Smithshire, 1.0 mi. E. thence 2.8 mi. S. from, 0.25 mi. N. of $S\frac{1}{4}$ cor. sec. 20, T. 9 N., R. 3 W., 20 ft. N. and 20 ft. E. from N. end of bridge over Ellison Creek, in fence line, in root on W. side of 12-in. locust tree; copper nail and washer

680.77

[Continued in La Harpe quadrangle, line 5]

2. From point near east quarter corner sec. 32, T. 12 N., R. 3 W., west along road to west quarter corner sec. 32, T. 12 N., R. 4 W (by W. A. Shumate in 1923)

[Connects with line 6 in Mountmout quadrangle]

	Feet
T. 12 N., R. 3 W., near W $\frac{1}{4}$ cor. sec. 32, in NE. angle of crossroads, 2 ft. SE. of corner fence post; standard iron post with bronze cap	689. 851
T. 12 N., R. 4 W., near E $\frac{1}{4}$ cor. sec. 36, on W. side of Henderson-Warren county-line rd., in line with T-rd. E., 180 ft. S. of rd. W., in root of 30-in. pine tree; copper nail and washer	698. 23
T. 12 N., R. 4 W., 0.12 mi. S. of W $\frac{1}{4}$ cor. sec. 36, 40 ft. S. and 104 ft. E. from private lane S., in root on W. side of 60-in. black-oak tree; copper nail and washer	688. 24
T. 12 N., R. 4 W., 0.1 mi. S. of center of sec. 35, 60 ft. S. of S. entrance to Old No. 1 School, in concrete post; standard tablet stamped "31 S 1923"	694. 344
Reference mark, near SE. corner of schoolhouse, in root of 40-in. maple tree; copper nail and washer	695. 53
T. 12 N., R. 4 W., near E $\frac{1}{4}$ cor. sec. 33, 35 ft. N. and 92 ft. W. from crossroads, in root on S. side of 60-in. maple tree; copper nail and washer	678. 68
T. 12 N., R. 4 W., near W $\frac{1}{4}$ cor. sec. 33, 730 ft. NW. of rd. fork, on NE. corner of stone retaining wall of bridge; chiseled square	561. 32
T. 12 N., R. 4 W., 0.15 mi. SW. of center of sec. 32, on SE. abutment of bridge over Henderson Creek; chiseled square (recovered in 1931)	562. 54
Henderson Creek, under bridge; surface of water Oct. 3, 1923	544. 2
T. 12 N., R. 4 W., near W $\frac{1}{4}$ cor. sec. 32, in NE. angle of junction of rd. N., 12 ft. NW. of fence corner, in concrete post; standard tablet stamped "32 S 1923" (recovered in 1931)	565. 561
Reference mark 1, on N. side of E.-W. rd., in line with rd. N., in root of 36-in. black-oak tree; copper nail and washer	565. 12
Reference mark 2, on N. side of E.-W. rd., 90 ft. NW. of junction of T-rd. N., in root of 24-in. black-oak tree; copper nail and washer	565. 24
3. From Oquawka alternately east and north along roads to point near center of sec. 32, T. 12 N., R. 4 W. (by S. R. Archer in 1931)	
Oquawka, at NW. corner of Schuyler and Second Streets, at SW. corner of brick store building of Robert Moir, 2 ft. above water table, in stone pillar; center of hole in copper bolt (U. S. C. E. B. M. 17; recovered by U. S. C. & G. S. in 1935)	535. 829
Oquawka, at SE. corner of Schuyler and Third Streets, at NW. corner of brick building, on W. side, 2.5 ft. above ground; center of hole in copper bolt (U. S. C. E. B. M. 18; recovered by U. S. C. & G. S. in 1935)	547. 614
Oquawka, in yard of Henderson County courthouse, in concrete post; standard tablet stamped "Prim Trav Sta No 36 W 1923"	561. 826
Oquawka, at NE. corner of Schuyler and Eighth Streets, at drain under street N., on top of E. concrete head wall; chiseled square	554. 35
Oquawka, 0.9 mi. along State Highway 164 E. of intersection of Schuyler and Eighth Streets, near center of sec. 23, T. 11 N., R. 5 W., in NE. angle of crossroads, at fence corner, in crotch of two-forked oak tree; copper nail and washer	559. 10

	Feet
Oquawka, 0.9 mi. E. thence 0.7 mi. N. from, 0.24 mi. S. of center of sec. 24, T. 11 N., R. 5 W., 75 ft. N. of E.-W. fence line, on W. side of rd., in root on E. side of twin elm tree; copper nail and washer-----	564. 87
T. 11 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 11, in NE. angle of junction of T-rd. E., 50 ft. S. and 35 ft. E. from junction of T-rd. W., in root on SW. side of 24-in. oak tree; copper nail and washer-----	573. 44
T. 11 N., R. 5 W., near center of sec. 11, 50 ft. E. of junction of T-rd. E., on N. side of rd., in root on W. side of 8-in. oak tree; copper nail and washer-----	572. 18
T. 11 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 2, 325 ft. N. of junction of T-rd. E., on W. side of rd., in root on NE. side of 18-in. hickory tree; copper nail and washer-----	567. 26
T. 11 N., R. 5 W., near center of sec. 2, 200 ft. N. and 30 ft. E. from crossing of Chicago, Burlington & Quincy R. R., in concrete post; standard tablet stamped "Prim Trav Sta No 35 W 1923"-----	572. 578
T. 12 N., R. 5 W., near S $\frac{1}{4}$ cor. sec. 35, on W. side of rd., 65 ft. N. of township line, in root on E. side of 36-in. elm tree; copper nail and washer-----	566. 68
T. 12 N., R. 5 W., near center of sec. 35, 60 ft. E. of junction of T-rd. E., on S. side of rd., in root on W. side of 6-in. locust tree; copper nail and washer-----	563. 08
T. 12 N., R. 5 W., 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 36, 0.17 mi. E. of crossing of C. B. & Q. R. R., on N. side of rd., at fence line, in root on S. side of 10-in. oak tree with triangular blaze on W. side of trunk; copper nail and washer-----	557. 26
T. 12 N., R. 5 W., near center of sec. 36, 40 ft. S. of junction of T-rd. S., on E. side of rd., in root on N. side of 12-in. oak tree; copper nail and washer-----	556. 18
T. 12 N., R. 4 W., near W $\frac{1}{4}$ cor. sec. 31, in NE. angle of crossroads, near fence corner, in root on W. side of 24-in. oak tree; copper nail and washer-----	581. 63
4. From Oquawka south along State Highway 164 and parallel road to Gladstone, thence southeast along Chicago, Burlington & Quincy Railroad to road crossing 1.5 miles east of Biggsville, thence south along road and east along U. S. Highway 34 to crossroads 1.1 miles south of Kirkwood (by S. R. Archer in 1931)	
Oquawka, 0.5 mi. along State Highway 164 S. of intersection of Schuyler and Eighth Streets, near quarter corner between secs. 22 and 27, T. 11 N., R. 5 W., 1 ft. E. of center line of concrete pavement, in line with concrete right-of-way markers on each side of highway; chiseled square-----	544. 49
Oquawka, 1.7 mi. S. of, 0.17 mi. S. of N $\frac{1}{4}$ cor. sec. 34, T. 11 N., R. 5 W., on E. side of highway, at fence line, in root on W. side of 24-in. elm tree; copper nail and washer-----	547. 75
Oquawka, 2.5 mi. along highway S. thence 0.7 mi. along rd. SE. from, 1.8 mi. along rd. NE. of Gladstone, 0.25 mi. E. of center of sec. 3, T. 10 N., R. 5 W., 35 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 37 W 1923"-----	538. 734
Gladstone, 0.5 mi. along rd. NE. of, in SW $\frac{1}{4}$ sec. 10, T. 10 N., R. 5 W., at S. stone abutment of bridge over South Henderson Creek, on E. end of bridge seat; chiseled square-----	541. 14

	Feet
Gladstone, 0.2 mi. E. of C. B. & Q. R. R. sta., 170 ft. S. of track, in SW. angle of street intersection, outside of sidewalk, at NE. corner of yard of dwelling, in root on E. side of 36-in. maple tree; copper nail and washer ¹⁰	549.85
Gladstone, 1.8 mi. E. of, at W. abutment of R. R. bridge over South Henderson Creek, on S. parapet wall; chiseled square	579.50
Gladstone, 2.7 mi. E. of, 3.0 mi. NW. of Biggsville, near N $\frac{1}{4}$ cor. sec. 13, T. 10 N., R. 5 W., 250 ft. S. of rd. crossing, on SW. side of rd., in NE. corner of yard of dwelling of W. Hedges, in concrete post; standard tablet stamped "Prim Trav Sta No 40 W 1923"	593.027
Biggsville, 2.2 mi. NW. of, at bridge over branch of South Henderson Creek, on top of W. end of S. head wall, chiseled square	604.16
Biggsville, 1.3 mi. NW. of, 150 ft. S. of rd. crossing, at N. abutment of rd. bridge over South Henderson Creek, on top of E. parapet; chiseled square	611.26
Biggsville, 0.5 mi. NW. of sta., at E. abutment of R. R. bridge over South Henderson Creek, on top of S. parapet; chiseled square	642.13
Biggsville, 20 ft. S. and 120 ft. W. from point on track directly in front of sta., at W. side of triangular lawn, in concrete post; standard tablet stamped "Prim Trav Sta No 41 W 1923" (recovered by U. S. C. & G. S. in 1935)	650.015
Biggsville, 0.2 mi. SE. of, at R. R. bridge over South Henderson Creek, on S. end of E. abutment; chiseled square	649.20
Biggsville, 1.2 mi. along R. R. SE. of, 150 ft. S. of rd. crossing, on N. bank of creek, on E. side of rd., at fence line, in root on W. side of 48-in. cottonwood tree; copper nail and washer	645.10
Biggsville, 1.5 mi. along highway E. of, near N $\frac{1}{4}$ cor. sec. 22, T. 10 N., R. 4 W., on S. side of highway, at junction of T-rd N., at drain under driveway to field, on top of W. concrete head wall; chiseled square	685.68
Biggsville, 2.0 mi. E. of, near NW. cor. sec. 23, T. 10 N., R. 4 W., in SE. angle of crossroads, at culvert under N.-S. rd., on top of E. concrete head wall; chiseled square	684.76
Biggsville, 2.5 mi. E. of, near S $\frac{1}{4}$ cor. sec. 14, T. 10 N., R. 4 W., in NW. angle of junction of T-rd. N., at culvert under rd. N., on top of W. concrete head wall; chiseled square	690.37
Biggsville, 3.0 mi. E. of, near NE. cor. sec. 23, T. 10 N., R. 4 W., 380 ft. W. of junction of T-rd. S., at highway culvert, on E. end of S. concrete head wall; standard tablet stamped "1 A 1931"	680.316
Reference mark, 400 ft. E. of tablet, in SE. angle of junction of T-rd. S., at culvert under rd. S., on top of E. concrete head wall; chiseled square	692.66
Biggsville, 4.0 mi. E. of, 1.1 mi. S. thence 2.0 mi. W. from Kirkwood, near S. cor. secs. 13 and 18, T. 10 N., Rs. 3 and 4 W., on N. side of highway, at junction of T-rd. S., at concrete culvert under driveway to field, on top of E. head wall; chiseled square	706.93
Kirkwood, 1.1 mi. S. thence 1.0 mi. W. from, near SE. cor. sec. 18, T. 10 N., R. 3 W., 125 ft. W. of junction of T-rd. S., at highway culvert, on top of E. end of N. concrete head wall; chiseled square	697.87

¹⁰ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Y 32 1934," elevation 548.385 ft.

Kirkwood, 1.1 mi. S. thence 0.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 17, T. 10 N., R. 3 W., in NE. angle of junction of T-rd N., at culvert under N.-S. rd., on top of E. concrete head wall; chiseled square-----

Feet
713.26

[Connects with line 6 in Monmouth quadrangle]

5. From Gladstone along roads alternately south and west to point near west quarter corner sec. 20, T. 9 N., R. 5 W. (by S. R. Archer in 1931)

Gladstone, at SW. corner of park, at granite monument bearing World War honor roll, on top of S. corner of concrete base; unmarked point-----

552.12

Gladstone, 900 ft. S. of C. B. & Q. R. R. sta., at S. end of principal business street, in NW. angle of street intersection, on E. side of oil pit at service sta., on top of N. end of curb; chiseled square-----

550.58

Gladstone, 1.5 mi. SW. of, 0.25 mi. N. of center of sec. 21, 60 ft. S. and 30 ft. W. from intersection of U. S. Highway 34, in concrete post; standard tablet stamped "Prim Trav Sta No 38 W 1923"-----

557.163

Reference mark, N. of tablet, in NW. angle of highway intersection, at culvert under N.-S. rd., on top of W. concrete head wall; chiseled square-----

555.87

Gladstone, 2.7 mi. SW. of, near center of sec. 28, T. 10 N., R. 5 W., in NE. angle of junction of rd. SE., 40 ft. NW. of center of culvert under rd. SE., 18 ft. SE. of center of S. end of steel bridge, on top of angle of concrete retaining wall; chiseled square-----
Gladstone, 3.8 mi. SW. of, near SE. cor. sec. 29, T. 10 N., R. 5 W., on NW. side of right-angle turn in rd. from N. to W. and junction of rd. S., in root on W. side of 15-in. oak tree; copper nail and washer-----

569.84

Gladstone, 4.5 mi. SW. of, 2.1 mi. N. of Hopper, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 32, T. 10 N., R. 5 W., in SW. angle of junction of rd. W., in root on E. side of 10-in. oak tree; copper nail and washer-----

569.15

Hopper, 1.1 mi. N. of, 0.25 mi. E. of center of sec. 5, T. 9 N., R. 5 W., at offset crossroads, 30 ft. S. and 25 ft. E. from junction of T-rd. N., in concrete post, 8 in. underground; standard tablet stamped "Prim Trav Sta No 39 W 1923"-----

570.93

Hopper, 0.5 mi. N. of, 0.15 mi. E. of N $\frac{1}{4}$ cor. sec. 8, T. 9 N., R. 5 W., at steel bridge over Ellison Creek, near foot of W. end of S. truss, on head of third rivet of inside row from bottom; chiseled cross-----

566.920

Hopper, 200 ft. N. of rd. junction, near center of sec. 8, T. 9 N., R. 5 W., on W. side of rd., at SE. corner of schoolhouse, on SE. corner of lower step of porch steps; chiseled square-----

558.82

Hopper, 1.0 mi. S. of, near center of sec. 17, T. 9 N. R. 5 W., 45 ft. S. and 40 ft. E. from right-angle turn in rd. from N. to W., in root on NW. side of 18-in. maple tree; copper nail and washer-----

571.54

Hopper, 1.5 mi. S. and 0.5 mi. W. from, near NW. cor. sec. 20, T. 9 N., R. 5 W., 65 ft. S. of crossroads, on E. side of rd., in root on S. side of 15-in. elm tree; copper nail and washer-----

570.25

576.79

[Continued in Burlington quadrangle, line 2]

PEARL QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

CALHOUN, GREENE, AND PIKE COUNTIES

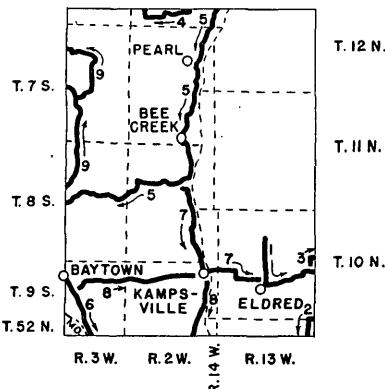


FIGURE 139.—Lines of leveling in Pearl quadrangle.

1. From point 2.9 miles north of Eldred south along road to Eldred, thence northeast to point 5 miles west of Carrollton (by E. O. Brooks in 1924)

Eldred, 2.9 mi. N. of, about 400 ft. S. of center of sec. 9, T. 10 N., R. 13 W., about 800 ft. N. of junction of Robley Hollow rd., on E. side of N.-S. rd., near NW. corner of front yard of E. V. Robley, 7 ft. E. of stone retaining wall; top of cap on iron post (U. S. C. E. P. B. M. 10)

Feet
470. 957

Eldred, 2.4 mi. N. of, near $N\frac{1}{4}$ cor. sec. 16, T. 10 N., R. 13 W., in SW. angle of junction of T.-rd. W., 10 ft. S. and 2 ft. E. from fence corner, in root on E. side of 12-in. hackberry tree; copper nail and washer

461. 32

Eldred, 1.4 mi. N. of, near $N\frac{1}{4}$ cor. sec. 21, T. 10 N., R. 13 W., in SE. angle of crossroads, 2 ft. W. of corner fence post, on large stone; chiseled square

462. 61

Eldred, 0.4 mi. N. of, near $N\frac{1}{4}$ cor. sec. 28, T. 10 N., R. 13 W., in SW. angle of junction of rd. W., 3 ft. N. and 2 ft. W. from corner fence post, on large stone; chiseled square

453. 90

Eldred, 98.7 ft. NE. of NE. corner and 32.6 ft. E. of range of E. side of schoolhouse, 3 ft. S. and 3 ft. W. from NE. corner of schoolyard, 13 ft. W. of sycamore tree; U. S. C. E. P. B. M. 9 (recovered in 1926)

453. 168
449. 202

Eldred, 0.9 mi. NE. of, near center of NW $\frac{1}{4}$ sec. 27, T. 10 N., R. 13 W., 12 ft. S. of rd., in NE. corner of timber, in root on NE. side of 18-in. white-oak tree; copper nail and washer

647. 47

Eldred, 1.5 mi. NE. of, 0.2 mi. W. of NE. cor. sec. 27, T. 10 N., R. 13 W., in SE. angle of junction of rd. S., 20 ft. W. of house, in root on NE. side of 6-in. elm tree; copper nail and washer

639. 67

	Feet
Eldred, 2.6 mi. NE. of, E. of center of sec. 23, T. 10 N., R. 13 W., about 300 ft. E. of angle E. in rd., in center of top of S. concrete head wall of culvert; chiseled square-----	606.87
Eldred, 3.0 mi. NE. of, 5.2 mi. W. of Carrollton, near E $\frac{1}{4}$ cor. sec. 23, T. 10 N., R. 13 W., in NW. angle of rd. junction; 5 ft. N. and 1 ft. E. from corner fence post, in concrete post; standard tablet stamped "1 EB 1924"-----	613.231
Reference mark, 13 ft. S. and 25 ft. W. from tablet, on top near center of concrete head wall at N. end of culvert; chiseled square-----	613.71
[Continued in Roodhouse quadrangle, line 3]	
2. From point 0.8 mile west of Woody along roads west 0.2 mile, thence south 0.9 mile (by E. O. Brooks in 1924)	
[Continued from Roodhouse quadrangle, line 3]	
Woody, 1.0 mi. W. of, near NW. cor. sec. 1, T. 9 N., R. 13 W., 5 ft. S. and 1 ft. W. from fence corner; top of $\frac{3}{4}$ -in. pipe-----	619.42
[Continued in Hardin quadrangle, line 1]	
3. From road junction 3 miles northeast of Eldred along roads north 0.8 mile and east 0.2 mile (by E. O. Brooks in 1924)	
Eldred, 3.0 mi. NE. thence 0.8 mi. N. from, 5.2 mi. W. thence 0.8 mi. N. from Carrollton, 0.25 mi. N. of SE. cor. sec. 14, T. 10 N., R. 13 W., in NW. angle of crossroads, 3 ft. N. and 1 ft. E. from fence corner; top of $\frac{3}{4}$ -in. pipe-----	628.32
[Continued in Roodhouse quadrangle, line 7]	
4. From point 3.9 miles southwest of Bedford generally southwest along roads to point 4.3 miles northwest of Pearl, thence north 0.4 mile (by S. R. Archer in 1924)	
[A jog from Griggsville quadrangle, line 5].	
Bedford, 5.0 mi. SW. of, 3.5 mi. NW. thence 1.1 mi. E. from Pearl, at Greenpond Church, near center of NW $\frac{1}{4}$ sec. 33, T. 6 S., R. 2 W., 25 ft. S. and 30 ft. E. from junction of T-rd. S., in NW. corner of churchyard, in concrete post; standard tablet stamped "Prim Trav Sta No 77 1923 28 A"-----	659.240
Reference mark, 55 ft. N. and 100 ft. E. from tablet, on N. side of rd., on E. side of entrance to churchyard, on E. edge of concrete walk; chiseled square-----	658.73
Pearl, 3.5 mi. NW. thence 0.2 mi. E. from, 5.0 mi. S. of Milton, 0.25 mi. E. of center of sec. 32, T. 6 S., R. 2 W., 50 ft. N. and 50 ft. W. from right-angle turn from S. to W. in rd., 30 ft. N. and 35 ft. W. from fence corner, in field, in root on NE. side of 36-in. oak tree; copper nail and washer-----	657.64
Pearl, 4.3 mi. NW. of, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 31, T. 6 S., R. 2 W., 25 ft. S. and 25 ft. E. from junction of N.-S. rd., in field, in root on NW. side of 12-in. maple tree; copper nail and washer-----	706.38
[Continued in Griggsville quadrangle, line 5]	
5. From point 3.8 miles northeast of Pearl generally south along valley road west of Illinois River to point 1 mile northwest of Cliffdale, thence west and southwest to point 1.8 miles east of Bellevue (by S. R. Archer in 1926)	
[Connects with line 5 in Griggsville quadrangle]	
Pearl, 3.0 mi. NE. of, NE. of center of SW $\frac{1}{4}$ sec. 35, T. 6 S., R. 2 W., 150 ft. N. of drain crossing, on W. side of rd., at residence of A. Gourley, 12 ft. S. of NE. corner of yard, in root on E. side of 24-in. maple tree; copper nail and washer-----	446.29

	Feet
Pearl, 2.5 mi. NE. of, in NW $\frac{1}{4}$ sec. 2, T. 6 S., R. 2 W., 35 ft. S. of junction of T-rd. NW., 45 ft. S. of ford of creek, on E. side of rd., in fence line, in root on NE. side of 10-in. walnut tree; copper nail and washer-----	445.00
Pearl, 1.5 mi. NE. of, 0.25 mi. W. of SE. cor. sec. 3, T. 7 S., R. 2 W., at junction of rd. NW., 60 ft. S. and 35 ft. E. from ford of creek, 70 ft. E. of rd., on S. bank of creek, 15 ft. NE. of 12-in. sycamore tree, in root on S. side of 15-in. sycamore tree; copper nail and washer-----	433.25
Pearl, 0.5 mi. E. of, about 800 ft. N. of S $\frac{1}{4}$ cor. sec. 10, T. 7 S., R. 2 W., 250 ft. W. of crossing of Chicago & Alton R. R., 40 ft. S. of S. rail of main track, 32 ft. S. and 75 ft. W. from semaphore, in line with telegraph poles, 4 ft. E. of last pole of line of poles E., in concrete post; standard tablet stamped "1 A 1926" ²⁰ -----	442.730
Reference mark, 175 ft. W. of rd. crossing, on S. side of main track, between main track and switch, on SE. corner of concrete base of semaphore; chiseled square-----	442.78
Pearl, 1.8 mi. SE. of, N. of S $\frac{1}{4}$ cor. sec. 15, T. 7 S., R. 2 W., about 650 ft. S. of residence of Jess McPherson, 30 ft. S. and 15 ft. W. from junction of rd. W., on N. bank of creek, 30 ft. W. of ford, in root on SE. side of 6-in. poplar tree; copper nail and washer-----	449.92
Pearl, 3.3 mi. by rd. S. of, near center of NW $\frac{1}{4}$ sec. 27, T. 7 S., R. 2 W., on S. bank of creek, on W. side of rd., in fence corner, in root on SE. side of 12-in. maple tree; copper nail and washer-----	448.49
Pearl, 4.0 mi. S. of, about 800 ft. S. of W $\frac{1}{4}$ cor. sec. 27, T. 7 S., R. 2 W., 100 ft. S. of stream crossing, 100 ft. N. of angle SE. in rd. and junction of private rd. W., on E. side of rd., inside field fence, in root on SE. side of 10-in. walnut tree; copper nail and washer-----	452.66
Pearl, 4.1 mi. S. of, 1.0 mi. NE. of Bee Creek, about 0.2 mi. N. of SW. cor. sec. 27, T. 7 S., R. 2 W., on W. side of rd., opposite and 17 ft. S. of line with S. side of residence of J. W. Vaughn, 10 ft. S. of gate in fence line, 20 ft. W. of center line of rd., at fence line, in concrete post; standard tablet stamped "2 A 1926"-----	471.331
Reference mark, on E. side of rd., at NW. corner of Vaughn residence, 5 ft. N. of NW. corner of shed, in root on S. side of 12-in. walnut tree; copper nail and washer-----	467.92
Bee Creek, 25 ft. S. and 40 ft. W. from junction of rd. W., at E. window in front of store of J. B. Fisher, on top of E. end of concrete sill; chiseled square-----	438.87
Bee Creek, 0.5 mi. SE. of, about 650 ft. E. of SW. cor. sec. 34, T. 7 S., R. 2 W., 220 ft. N. of crossing of Calhoun-Pike county line, on top of N. end of W. concrete head wall of culvert; chiseled square-----	454.53
Bee Creek, 1.7 mi. SE. of, 120 ft. below warehouse at Gravel Point Landing, 100 ft. SE. of store of Otto Retzer, opposite and 15 ft. S. of line along N. side of orchard, on E. side of rd., in root on NW. side of 36-in. locust tree; copper nail and washer-----	428.73
Bee Creek, 2.7 mi. by rd. S. of, 0.25 mi. S. of quarter corner between secs. 9 and 10, T. 8 S., R. 2 W., 170 ft. W. of angle to N. in rd., 135 ft. W. of section line, on S. side of rd., on N. side of cemetery, in root on N. side of 24-in. hard-maple tree; copper nail and washer-----	442.74

²⁰ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Y 82 1935," elevation 443.733 ft.

Bee Creek, 3.1 mi. by rd. S. of, 1.0 mi. NW. of Cliffdale, 9.0 mi. NE. of Belleview, about 800 ft. NE. of S $\frac{1}{4}$ cor. sec. 9, T. 8 S., R. 2 W., 15 ft. N. and 40 ft. W. from junction of rd. SE., 60 ft. N. and 50 ft. W. from bridge over East Panther Creek, 2 ft. S. of fence on N. side of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 173 F 1925"-----	433. 449
Belleview, 7.8 mi. NE. of, near S $\frac{1}{4}$ cor. sec. 8, T. 8 S., R. 2 W., 170 ft. E. of line with E. side of Panther Creek School, 50 ft. W. of SE. corner of schoolyard, 170 ft. E. of private rd. S., 210 ft. W. of private rd. N., 50 ft. N. of rd., in root on SW. side of 36-in. oak tree; copper nail and washer-----	464. 18
Belleview, 6.8 mi. NE. of, 0.25 mi. S. of center of sec. 7, T. 8 S., R. 2 W., in SW. angle of junction of rd. S., in fence corner, in concrete post; standard tablet stamped "3 A 1926"-----	499. 345
Reference mark, 130 ft. S. of rd. junction, 50 ft. S. of ford of creek, on W. side of rd., in field, in root on W. side of 30-in. oak tree; copper nail and washer-----	500. 02
Belleview, 5.6 mi. NE. of, about 650 ft. N. of E $\frac{1}{4}$ cor. sec. 13, T. 8 S., R. 3 W., on W. bank of creek, at ford, at junction of private rd. N., on S. side of rd., in root on E. side of 15-in. sycamore tree; copper nail and washer-----	540. 69
Belleview, 5.1 mi. NE. of, 0.2 mi. S. and 0.12 mi. E. from center of sec. 13, T. 8 S., R. 3 W., on N. side of rd., 150 ft. E. of residence of E. Dierking, in root on W. side of 12-in. live-oak tree standing with 12-in. red-oak tree; copper nail and washer-----	568. 17
Belleview, 4.6 mi. NE. of, 0.3 mi. W. of center of sec. 13, T. 8 S., R. 3 W., 30 ft. W. of bridge over creek, 150 ft. E. of residence of H. A. Davis, on N. side of rd., in root on S. side of 30-in. oak tree; copper nail and washer-----	623. 83
Belleview, 3.9 mi. NE. of, near center of sec. 14, T. 8 N., R. 3 W., 25 ft. N. and 30 ft. E. from crossroads, 2 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 172 F 1925"-----	740. 973
Reference mark, 90 ft. N. and 10 ft. W. from tablet, 110 ft. N. and 20 ft. E. from crossroads, in E. fence line, in root 8 in. underground on S. side of 12-in. wild-cherry tree; copper nail and washer-----	734. 18
Belleview, 3.0 mi. NE. of, near center of NE $\frac{1}{4}$ sec. 15, T. 8 S., R. 3 W., 90 ft. E. of T-rd. N., on N. side of creek and rd., in N. fence line, in root on SE. side of 24-in. forked elm tree; copper nail and washer-----	611. 42

[Continued in Nebo quadrangle, line 1]

6. From Baytown southeast along road to point 1.4 miles northwest of Hamburg (by S. R. Archer in 1926; leveled twice)

[Continued from Nebo quadrangle, line 3]

Baytown (Mozier post office), on NE. side of rd., at Clendenny Bros. general store, on W. side just N. of SW. corner of concrete block building, on N. end of concrete doorstep; chiseled cross-----	448. 82
Baytown, 0.5 mi. SE. of, 0.3 mi. SW. of center of sec. 10, T. 9 S., R. 3 W., 60 ft. NW. and 20 ft. NE. from junction of rd. NE. to Kampsville, 10 ft. E. of mail box stand, 10 ft. N. of signboard, in concrete post; standard tablet stamped "Prim Trav Sta No 177 F 1925"-----	451. 076

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Baytown, 1.3 mi. SE. of, 0.25 mi. N. of center of sec. 15, T. 9 S., R. 3 W., on N. end of point where rd. runs well up on bluff, 65 ft. S. of small house on E. side of rd., 9 ft. above rd. level, in root on W. side of 10-in. oak tree; copper nail and washer	Feet 522.14
Baytown, 2.2 mi. SE. of, near center of fractional sec. 22, T. 9 S., R. 3 W., 0.25 mi. NW. of Mozier Landing on Mississippi River, 25 ft. S. of junction of T-rd. E., on W. side of rd., at fence line, in root on W. side of forked pecan tree; copper nail and washer	445.38
Mozier Landing, 75 ft. S. of rd. junction, near SE. cor. fractional sec. 22, T. 9 S., R. 3 W., on W. side of rd., at SE. corner of store building, on SW. corner of concrete platform; chiseled square	448.72
Mozier Landing, about 1,300 ft. SE. of, 1.8 mi. NW. of Hamburg, about 325 ft. from bank, 175 ft. E. of rd., 130 ft. N. of S. end of barn lot enclosed by fence and below dwelling, at foot of slope of bluff, opposite upper end of cliff, on W. bank of small drain; Mississippi River Comm. B. M. 79/2	
cap on iron pipe	463.470
bolt in tile	459.450

[Continued in Hardin quadrangle, line 2]

7. From road junction 1 mile northwest of Cliffdale along roads southeast to Kampsville, thence alternately east and south to Eldred (by S. R. Archer in 1926)	
Cliffdale, 70 ft. S. and 50 ft. E. from right-angle turn in rd., in NW $\frac{1}{4}$ sec. 15, T. 8 S., R. 2 W., 30 ft. E. of private rd. S. to store and residence, on S. bank of drain, in root on S. side of 10-in. elm tree; copper nail and washer	431.30
Cliffdale, 1.1 mi. SE. of, about 800 ft. NW. of E $\frac{1}{4}$ cor. fractional sec. 22, T. 8 S., R. 2 W., 160 ft. N. of residence of Joseph Fields on W. side of rd., on E. side of rd., in small clearing, in root on W. side of lone 12-in. pecan tree; copper nail and washer	432.45
Cliffdale, 2.2 mi. SE. of, 2.6 mi. NW. of Kampsville, 0.25 mi. N. of center of sec. 27, T. 8 S., R. 2 W., 25 ft. NW. of rd., at NE. end of curve NE., 55 ft. SW. of junction of rd. NW. along Woods Branch, 14 ft. S. of S. corner of shed, 5 ft. S. of forked elm tree, in concrete post; standard tablet stamped "7 A 1926"	443.420
Reference mark, 5 ft. N. of tablet, 50 ft. SW. of rd. junction, on N. side of rd., at S. corner of shed, in root on E. side of forked elm tree; copper nail and washer	443.31
Kampsville, 1.9 mi. NW. of, near S $\frac{1}{4}$ cor. sec. 27, T. 8 S., R. 2 W., 260 ft. W. of junction of T-rd. W. along Silver Creek, on N. side of rd., in front of residence, at SE. corner of yard, in root on NW. side of easternmost tree of row of maple trees; copper nail and washer	437.17
Kampsville, 1.0 mi. NW. of, near E $\frac{1}{4}$ cor. sec. 34, T. 8 S., R. 2 W., 350 ft. S. of driveway W. to residence of H. Rapp, on E. side of rd., in root on S. side of 30-in. pecan tree; copper nail and washer	427.16
Kampsville, 1 block W. of ferry landing, opposite NW. corner of Brenn Hotel, 30 ft. SW. of street intersection, at N. edge of sidewalk, along S. side of street W., just W. of intersection of walks, in concrete post; standard tablet stamped "Prim Tray Sta No 180 F 1925"	433.130

Kampsville, 0.7 mi. E. of, near W $\frac{1}{4}$ cor. sec. 19, T. 10 N., R. 13 W., 30 ft. S. and 30 ft. E. from junction of T-rd. S., in fence corner, in root on NW. side of 24-in. elm tree; copper nail and washer-----	Feet 424. 25
Kampsville, 1.8 mi. E. of, 1.0 mi. N. in air line and 1.4 mi. W. from Eldred, near W $\frac{1}{4}$ cor. sec. 20, T. 10 N., R. 13 W., 150 ft. S. and 100 ft. E. from right-angle turn S. in rd., in cultivated field, in root on W. side of 12-in. pecan tree; copper nail and washer-----	422. 25
Eldred, 0.4 mi. NE. thence 1.5 mi. W. from, near NW. cor. sec. 29, T. 10 N., R. 13 W., 20 ft. S. and 25 ft. E. from junction of T-rd. E., at concrete corner post 4 in. square; SE. corner of top-----	423. 71
Eldred, 0.4 mi. NE. thence 1.0 mi. W. from, near quarter corner between secs. 20 and 29, T. 10 S., R. 13 W., at bridge over drainage ditch, on top of N. parapet of E. concrete abutment; chiseled square-----	433. 84
Eldred, 0.4 mi. NE. of, near S $\frac{1}{4}$ cor. sec. 21, T. 10 S., R. 13 W., 175 ft. N. of rd. junction, on E. side of N-S. rd., in front of farmhouse, in root on S. side of 30-in. walnut tree; copper nail and washer-----	459. 30
8. From Baytown along roads southeast to Fox Hollow, thence northeast and east to Kampsville, thence south and southwest to point 1 mile north of Michael (by J. M. Lawson in 1926)	
[Connects with line 3 in Nebo quadrangle]	
Kampsville, 0.5 mi. SE. thence 1.0 mi. NE. from, 6.8 mi. W. of Kampsville, near cor. secs. 2, 3, 10, and 11, T. 9 S., R. 3 W., in line with trees N. and fence S., on top of NE. corner of NE. wing wall of concrete culvert; chiseled square-----	489. 73
Kampsville, 6.3 mi. W. of, about 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 2, T. 9 S., R. 3 W., 150 ft. E. of T-rd. N., 18 ft. N. of rd., on S. bank of creek, opposite barn on S. side of rd., in root of S. side of 48-in. elm tree; copper nail and washer-----	510. 50
Kampsville, 5.8 mi. W. of, 40 ft. N. and 45 ft. E. from SW. cor. sec. 1, T. 9 S., R. 3 W., 20 ft. S. of rd., in root on W. side of 30-in. pecan tree; copper nail and washer-----	537. 32
Kampsville, 4.8 mi. W. of, 500 ft. W. of SE. cor. sec. 1, T. 9 S., R. 3 W., 60 ft. S. of rd., 30 ft. N. of N. bank of creek, opposite house 300 ft. N. of rd., in root on NW. side of 30-in. sycamore tree; copper nail and washer-----	537. 30
Kampsville, 4.2 mi. W. of, 0.1 mi. N. and 0.2 mi. W. from S $\frac{1}{4}$ cor. sec. 6, T 9 S., R. 2 W., on N. side of rd., at S. entrance of Summit Grove Methodist Episcopal Church, on SE. corner of lower concrete step; chiseled square-----	619. 40
Kampsville, 3.4 mi. W. of, 100 ft. N. and 0.25 mi. E. from SW. cor. sec. 5, T. 9 S., R. 2 W., at summit, 60 ft. N. and 25 ft. W. from junction of rd. N., 60 ft. N. and 50 ft. E. from junction of rd. S., 1 ft. S. of wooden fence around yard of dwelling, in concrete post; standard tablet stamped "4 L 1926"-----	719. 658
Reference mark, 1 ft. S. and 5 ft. W. from tablet, near offset cross-roads, in root on E. side of 24-in. oak tree; copper nail and washer-----	719. 21
Kampsville, 2.6 mi. W. of, about 500 ft. N. of S. cor. secs. 4 and 5, T. 9 S., R. 2 W., 15 ft. S. of rd., 15 ft. W. of fence line N. and T-rd. S., on W. bank of creek, in root on NW. side of lone 24-in. elm tree; copper nail and washer-----	598. 59

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Kampsville, 1.6 mi. W. of, 0.3 mi. N. of S. cor. secs. 3 and 4, T. 9 S., R. 2 W., 20 ft. E. of N.-S. fence line, 30 ft. S. of rd., 30 ft. N. of N. bank of creek, in root on N. side of 24-in. cottonwood tree; copper nail and washer	Feet 515.00
Kampsville, near W. limits of, 0.2 mi. N. and 0.1 mi. E from SW. cor. sec. 2, T. 9 S., R. 2 W., 35 ft. N. of rd., 80 ft. W. of junction of rd. N., in triangle of rd. forks, in root on W. side of lone 36-in. elm tree; copper nail and washer	442.58
Kampsville, at S. limits of, 0.4 mi. E. of NW. cor. sec. 11, T. 9 S., R. 2 W., 0.25 mi. W. of government locks, 40 ft. S. and 70 ft. W. from junction of rd. E., 15 ft. N. of house, in root on W. side of 24-in. elm tree; copper nail and washer	432.44
Kampsville, 0.5 mi. S. and 0.25 mi. E. from center of, at government locks, on SW. corner of concrete pier; chiseled square	424.34
Kampsville, 1.6 mi. S. of, about 650 ft. S. and 0.4 mi. E. from NW. cor. sec. 14, T. 9 S., R. 2 W., 40 ft. S. of rd., at S. end of long curve, in root on SW. side of 24-in. twin elm tree; copper nail and washer	430.54
Kampsville, 2.7 mi. S. of, 1.8 mi. NE. of Michael, about 500 ft. SW. of NE. cor. sec. 22, T. 9 S., R. 2 W., 220 ft. SW. of junction of rd. NW., on SE. corner of E. curb of concrete bridge, chiseled square	443.29
Michael, 1.0 mi. N. of, in SE $\frac{1}{4}$ sec. 22, T. 9 S., R. 2 W., about 750 ft. S. of junction of rd. W., on SE. corner of E. guardrail of concrete bridge; chiseled square	440.62

[Continued in Hardin quadrangle, line 3]

9. From point 1.3 miles east thence 1.2 miles northeast from Bellevue generally northeast along road through Stearns Hollow and other roads to Rock Hill School, thence west to point near center of sec. 9, T. 7 S., R. 3 W. (by J. M. Lawson in 1926)

[Continued from Nebo quadrangle, line 5]

Bellevue, 1.3 mi. E. thence 2.4 mi. NE. from, about 260 ft. N. of center of NW $\frac{1}{4}$ sec. 10, T. 8 S., R. 3 W., 220 ft. N. of junction of rd. E., 125 ft. S. of residence of H. R. Ramsey, 35 ft. W. of rd., on W. bank of creek, in field, in root on NE. side of 36-in. spreading elm tree; copper nail and washer	639.11
T. 8 S., R. 3 W., 0.25 mi. W. of center of sec. 3, 400 ft. W. of Farmers Ridge Church, 60 ft. S. and 30 ft. E. from junction of E.-W. rd., 25 ft. W. of oak tree in line with N. line of hitching posts, in concrete post; standard tablet stamped "Prim Trav Sta No 169 F 1925"	725.636
Reference mark, 75 ft. N. and 10 ft. W. from tablet, 20 ft. N. and 40 ft. E. from T.-rd. N., on SW. side of 15-in. maple tree; copper nail and washer	728.53
Tps. 7 and 8 S., R. 3 W., 0.25 mi. W. of quarter corner between secs. 3 and 34, 6 ft. S. of fence on Calhoun-Pike county line, 85 ft. E. of rd., in field, in root on W. side of 24-in. oak tree; copper nail and washer	663.59
T. 7 S., R. 3 W., 0.25 mi. W. of quarter corner between secs. 27 and 34, 50 ft. N. of junction of rd. E., 20 ft. W. of rd., in field, on E. bank of creek, in root on W. side of 24-in. poplar tree; copper nail and washer	597.98

	Feet
T. 7 S., R. 3 W., just W. of center of NW $\frac{1}{4}$ sec. 27, 65 ft. E. of junction of T-rd. E., on S. side of rd., in root on N. side of 12-in. walnut tree at fence line; copper nail and washer-----	575. 63
T. 7 S., R. 3 W., near center of SW $\frac{1}{4}$ sec. 22, 3.0 mi. by rd. SE. of Nebo, 150 ft. N. of Spring Creek, 10 ft. N. and 50 ft. E. from rd. fork, 2 ft. S. of fence line, in concrete post; standard tablet stamped "P T Sta No 170 F 1925" (recovered in 1936)-----	549. 538
Reference mark, about 0.2 mi. E. of tablet, 470 ft. W. of T-rd. N., on W. end of NW. wing wall of concrete culvert; chiseled square-----	559. 24
T. 7 S., R. 3 W., 200 ft. N. of center of E. side NE $\frac{1}{4}$ sec. 23, 0.9 mi. W. thence 0.2 mi. S. from Strant, 75 ft. N. of creek and fence line, 3 ft. W. of wooden fence, on E. side of rd., in root on NW. side of twin cherry tree; copper nail and washer-----	653. 17
T. 7 S., R. 3 W., 500 ft. S. of W $\frac{1}{4}$ cor. sec. 14, about 750 ft. N. of house on E. side of rd., 150 ft. S. of summit of hill, on E. side of rd., in root on NW. side of 8-in. oak tree used as N. gatepost; copper nail and washer-----	682. 48
T. 7 S., R. 3 W., near S. cor. secs. 10 and 11, 35 ft. N. of and in line with T-rd. S., in root on SW. side of 15-in. elm tree used as corner fence post; copper nail and washer-----	526. 87
T. 7 S., R. 3 W., about 500 ft. N. of E $\frac{1}{4}$ cor. sec. 10, 120 ft. N. and 60 ft. W. from NW. corner of Rock Hill School, 50 ft. W. of rd., in concrete post; standard tablet stamped "P T Sta No 171 F 1925"-----	529. 199
Reference mark, 550 ft. S. of tablet, 20 ft. S. and 20 ft. W. from junction of T-rd. W., in root on NE. side of 24-in. oak tree; copper nail and washer-----	521. 96
T. 7 S., R. 3 W., near E $\frac{1}{4}$ cor. sec. 9, 10 ft. S. and 120 ft. W. from junction of N.-S. rd., 100 ft. W. of N.-S. fence line, 3 ft. N. of E.-W. fence line, on E. bank of creek, in root on E. side of easternmost of two elm trees; copper nail and washer-----	540. 43

[Continued in Nebo quadrangle, line 6]

PEORIA QUADRANGLE

[Latitude 40°30'–40°45'; longitude 89°30'–89°45']

PEORIA, TAZEWELL, AND WOODFORD COUNTIES

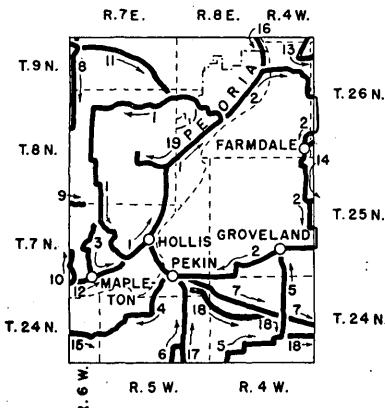


FIGURE 140.—Lines of leveling in Peoria quadrangle.

1. From Peoria along roads generally west about 7.5 miles, thence south and east to Hollis, thence northeast to Peoria (by Carleton McRae in 1902)

Peoria, at foot of Bridge Street; water gage reading "130 feet below
Lake Michigan".

Peoria, at Bradley Polytechnic Institute, in W. side of building;
aluminum tablet stamped "607 Peoria" (recovered in 1927)-----

Peoria, about 7 mi. W. of, at crossroads, at North Limestone Methodist Episcopal Church, in middle of W. foundation; standard tablet stamped "709 Peoria" ²¹.

Hollis, 3.0 mi. in air line NW. of, in NE. cor. sec. 5, T. 7 N., R. 7 E.,
780 ft. W. of section-line rd., 900 ft. W. of junction of T-rd. E., at
residence of C. F. Goetze, in NW. corner of foundation; aluminum
tablet stamped "622 Peoria" ²²

Hollis, 2.7 mi. in air line NW. of, at Hollis School No. 4, at junction
of 1-nd N. on small stone: chiseled cross.

Hollis, 200 ft. S. of saloon, at junction of T-rd. W., on W. side of stone culvert; chiseled across.

Hollis, 300 ft. S. of sta., on W. side of stone culvert; chiseled cross
2. From Paaria along roads east, south, and west by way of Farm

2. From Peoria along roads east, south, and west by way of Farmdale, Groveland, and Pekin to Hollis (by Carleton McRae in 1902)

Peoria, about 6 mi. NE. of, about 2.5 mi. E. of free bridge, about 4 mi. in air line N. of Farndale, at residence of J. Grosenbach, in E. side of foundation of water tank; standard tablet stamped "693 Peoria" _____

²¹ In 1924 the stone containing the tablet was moved to a point in west fence line 100 ft. north of center line of road west. The figures given represent the new elevation.

²² In 1922 this bench mark was reported destroyed.

792

	Feet
Farmdale, 500 ft. S. of sta., at R. R. bridge; on W. wing of N. abutment; chiseled cross	541. 38
Groveland, in SW. corner of Baptist Church; aluminum tablet stamped "778 Peoria"	778. 548
Pekin, at NE. corner of intersection of Second and Court Streets, in catch basin; top of bolt	471. 992
3. From road junction 2.7 miles northwest of Hollis along roads generally south to Mapleton, thence northeast to Hollis (by Carleton McRae in 1902)	
Mapleton, 2.0 mi. NE. of, 1.0 mi. SW. of Orchard Mines, at steel wagon bridge over Lamarsh Creek, on E. wing of S. abutment; chiseled square ²³	454. 81
4. From Pekin southwest along roads about 8 miles (by Carleton McRae in 1902)	
Pekin, in grounds of Tazewell County courthouse, at NE. corner of office of County Clerk, in water table; aluminum tablet stamped "478 Peoria" (recovered by first-order leveling in 1905 and designated "B"; later reported destroyed)	478. 549
Pekin, 7.0 mi. SW. of, at iron bridge over Mackinaw River, in S. wing of W. abutment; aluminum tablet stamped "453 Peoria" (recovered in 1929) ²⁴	453. 785
[Continued in Delavan quadrangle, line 1] ²⁵	
5. From point about 6 miles southeast of Pekin along roads alternately north and east to Groveland (by Carleton McRae in 1902)	
[Continued from Delavan quadrangle, line 1]	
Groveland, 4.8 mi. S. thence 0.7 mi. E. from, 1.5 mi. W. of Tremont, at wagon bridge over Dillon Creek, on N. wing wall of E. abutment; aluminum tablet stamped "611 Peoria" (recovered in 1930)	612. 094
6. From point 0.9 mile south of Hawley generally north along roads to Pekin (by Carleton McRae in 1902)	
[Connects with line 1 in Delavan quadrangle]	
Hawley, 0.6 mi. E. of sta., at wagon bridge over Lost Creek, in SE. wing wall of abutment; aluminum tablet stamped "513 Peoria" (recovered in 1930) ²⁶	513. 404
7. From Pekin southeast along Cleveland, Cincinnati, Chicago & St. Louis Railway to point near Tremont (by E. L. McNair in 1905; first-order leveling)	
Pekin, on E. side of office of County Clerk, in water table; copper bolt designated "A"	478. 559
Pekin, at traction-line bridge over Illinois River, about 12 ft. N. of center line of track, in top of E. abutment; copper bolt designated "C" (U. S. C. E. B. M. 49; recovered by U. S. C. & G. S. in 1935)	454. 888
Pekin, at C. C. C. & St. L. Ry. sta.; top of rail	466. 7

²³ In 1929 this bench mark was reported destroyed.

²⁴ This bench mark is listed in the U. S. C. E. first-order line, Grafton to Chicago.

²⁵ This line passes through the southeast corner of Glasford quadrangle and the northeast corner of Manito quadrangle but no permanent marks were set along that portion of the line.

²⁶ When this bench mark was recovered in 1930 it was found that the top of the tablet had broken off but the stem remained. The elevation determined for the undisturbed portion of concrete at the site of the tablet is 513.384 ft.

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Leslie, 0.7 mi. W. of, 15 rails E. of milepost marked "P 15," at concrete bridge, 15 ft. N. of center line of track, in N. coping, 4 ft. E. of W. end; aluminum tablet designated "D" (recovered in 1930) Feet
681. 442

[Continued in Mackinaw quadrangle, line 1]

8. From point in Edwards along roads southeast 0.4 mile, thence south and west to point 0.7 mile south and 2.6 miles east from Hanna City (by C. E. Walker in 1927)

[Continued from Glasford quadrangle, line 3]

Edwards, 0.5 mi. SE. of R. R. sta., at NE. corner of bridge over Kickapoo Creek; top of rivet of pier cap 501. 03

Edwards, 0.5 mi. SE. thence 1.4 mi. S. from, near quarter corner between secs. 30 and 31, T. 9 N., R. 7 E., in NW. angle of junction of T-rd. W., 70 ft. E. of Hawarth School, in fence corner, in root on N. side of 30-in. maple tree; spike 626. 99

Edwards, 0.5 mi. SE. thence 2.5 mi. S. from, near quarter corner between secs. 6 and 31, Tps. 8 and 9 N., R. 7 E., on W. side of rd., at gate to farmhouse of Charles Dubet, on concrete base of southernmost gatepost; chiseled square 707. 60

Edwards, 0.5 mi. SE. thence 3.6 mi. S. from, 2.9 mi. along State Highway 8 E. of Hanna City, 1,000 ft. S. of N $\frac{1}{4}$ cor. sec. 7, T. 8 N., R. 7 E., 30 ft. S. and 30 ft. W. from crossroads, in fence line, in concrete post; standard tablet stamped "5 WA 1927" 726. 049

Reference mark, in SW. corner of crossroads, on concrete culvert; chiseled square 725. 18

Hanna City, 2.9 mi. E. thence 0.9 mi. S. from, near S $\frac{1}{4}$ cor. sec. 7, T. 8 N., R. 7 E., 40 ft. N. and 120 ft. W. from junction of T-rd. W., in root on SE. side of 30-in. oak tree; copper nail and washer 703. 17

[Continued in Glasford quadrangle, line 4]

9. From point 0.3 mile east of Harkers Corners School east along road 0.9 mile (by C. E. Walker in 1927; single spur line)

[Connects with line 4 in Glasford quadrangle]

Harkers Corners School, 1.2 mi. E. of, near NW. cor. sec. 5, T. 7 N., R. 7 E., at bridge over Lamarsh Creek, on NW. concrete retaining wall; chiseled square 518. 26

10. From point 1.3 miles east of Kingston Mines northeast along State Highway 9 to point 0.7 mile west of Mapleton, thence northwest to point near Wolcott (by C. E. Walker in 1927)

[A jog from Glasford quadrangle, line 6]

Kingston Mines, 1.7 mi. E. of, 0.7 mi. W. of Mapleton, 1.1 mi. SE. of Wolcott, 530 ft. W. of junction of rd. N., at 60-in. solid concrete bridge over Little Lamarsh Creek, in SE. wing wall; standard tablet stamped "16 WA 1927" 460. 990

Reference mark, in NE. corner of rd. junction, on concrete culvert; chiseled square 459. 86

[Continued in Glasford quadrangle, line 6]

11. From point in Edwards east and southeast along Chicago, Burlington & Quincy Railroad and State Highway 8 to Peoria (by C. E. Walker in 1927)

[Connects with line 3 in Glasford quadrangle]

Edwards, 1.0 mi. E. of, 40 ft. NE. of private rd. crossing, on highway, on concrete culvert; chiseled square 499. 15

Edwards, 2.5 mi. E. of, at bridge over creek, on NE. corner of concrete head wall; chiseled square 494. 78

	Feet
Edwards, 3.5 mi. SE. of, 2.0 mi. NW. of Pottstown, at R. R. bridge over creek, in SW. abutment; standard tablet stamped "31 WA 1927" ²⁷ —	487. 135
Reference mark, on NW. corner of bridge; chiseled square	487. 19
Pottstown, 0.5 mi. NW. of, at R. R. bridge over Kickapoo Creek, on SE. pier; chiseled square	477. 64
Pottstown, 600 ft. SE. of rd. crossing, on SE. corner of R. R. bridge; chiseled square	477. 21
Pottstown, 1.0 mi. S. of, 2.1 mi. NW. of Bradley Polytechnic Institute in Peoria, at intersection of State Highway 8, 40 ft. N. of highway, 15 ft. W. of track, in 48-in. concrete base of signal tower; standard tablet stamped "32 WA 1927"	475. 575
Reference mark, 30 ft. E. of intersection, on NW. corner of safety signal base; chiseled square	475. 12
Peoria, 1.0 mi. NW. of, 450 ft. E. of bridge over Dry Run Creek, on S. side of rd., on concrete culvert; chiseled square	506. 40
12. From road junction 0.7 mile west of Mapleton northeast and southeast along State Highway 9 to Pekin (by C. E. Walker in 1927)	
Mapleton, 800 ft. E. of Toledo, Peoria & Western R. R. sta., on S. side of highway, on concrete head wall of culvert; chiseled square	468. 99
Mapleton, 1.4 mi. NE. of, 450 ft. E. of R. R. crossing, on N. side of highway, on E. concrete head wall of culvert; chiseled square	462. 81
Mapleton, 2.4 mi. NE. of, 2.2 mi. NW. thence 1.0 mi. SW. from Pekin, at T. P. & W. R. R. bridge over Lamarsch Creek, on SW. abutment, 5 ft. SE. of SE. rail; standard tablet stamped "33 WA 1927"	455. 243
Reference mark, on NW. abutment of R. R. bridge; chiseled square	455. 21
Pekin, 2.2 mi. NW. of, 15 ft. NW. of Chicago & North Western Ry. crossing, on SE. corner of concrete base of signal; chiseled square	449. 62
13. Southwest 1.3 miles along State Highway 116, thence east along road to point 1.3 miles northwest of Columbia School (by J. A. Shumate in 1927)	
[Continued from Dunlap quadrangle, line 1]	
T. 26 N., R. 4 W., near center of sec. 1, about 8 mi. NE. of East Peoria, in NE. angle of junction of rd. N., 45 ft. W. of highway, in root on S. side of 15-in. elm tree; copper nail and washer (recovered in 1929)—	536. 28
East Peoria, about 7 mi. NE. of, 39 ft. SE. of SE. corner of Tenmile School, in root on E. side of 15-in. boxelder tree; copper nail and washer (recovered in 1929)	478. 56
Tenmile School, 0.9 mi. E. of, 1.5 mi. NW. of Columbia School, near cor. secs. 1, 6, 7, and 12, T. 26 N., Rs. 3 and 4 W., 60 ft. W. of house on N. side of rd., on top of S. head wall of concrete culvert; chiseled square	711. 06

[Continued in Mackinaw quadrangle, line 6]

14. From point 0.8 mile northeast of Farmdale along roads generally south to road junction 2.5 miles north and 1.2 miles east from Groveland, thence east to point about 2.5 miles northwest of Morton (by J. A. Shumate in 1927)

[Continued from Mackinaw quadrangle, line 6]

Farmdale, 0.7 mi. NE. of, in NW $\frac{1}{4}$ sec. 31, T. 26 N., R. 3 W., at 14-ft. bridge of Toledo, Peoria & Western R. R., on top of N. end of E. abutment; chiseled square

564. 30

²⁷ In 1936 the bridge abutment was extended 2 ft. 10 in. and the tablet was moved 3 ft. from this position and reset at the same elevation.

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	Feet
Farmdale, at crossing of T. P. & W. and New York, Chicago & St. Louis R. Rs.; top of rail-----	540. 2
Farmdale, about 600 ft. NW. of post office, 27 ft. S. and 175 ft. E. from grade crossing of N. Y. C. & St. L. R. R., 27 ft. S. and 50 ft. E. from Y-fence E., in concrete post; standard tablet stamped "Prim Trav Sta No 102 F 1925"-----	529. 472
Reference mark, 620 ft. S. 55° E. from tablet, in front of post office, in root on W. side of 24-in. sycamore tree; copper nail and washer-----	534. 66
Farmdale, 0.6 mi. S. of, near NW. cor. sec. 1, T. 25 N., R. 4 W., in NW. angle of junction of private T-rd. W., on N. end of concrete culvert; chiseled square-----	560. 49
Farmdale, 1.6 mi. S. of, in SW $\frac{1}{4}$ sec. 1, T. 25 N., R. 4 W., 30 ft. W. of rd., in SE. corner of barnyard, in root on E. side of 12-in. hickory tree; copper nail and washer-----	686. 01
Farmdale, 2.2 mi. S. of, 3.3 mi. N. and 1.2 mi. E. from Groveland, in NW $\frac{1}{4}$ sec. 12, T. 25 N., R. 4 W., 160 ft. N. and 30 ft. E. from junction of rd. NW., on NW corner of concrete approach to school; chiseled square-----	714. 32
Groveland, 2.5 mi. N. and 1.2 mi. E. from, 2.9 mi. NW. of Morton, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 12, T. 25 N., R. 4 W., 34 ft. N. and 22 ft. E. from T-junction of E.-W. rd., 4 ft. N. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 101 F 1925"-----	726. 815
Reference mark, 94 ft. S.40°W. from tablet, in root on NE. side of 12-in. hedge tree; copper nail and washer-----	728. 67
[Continued in Mackinaw quadrangle, line 5]	
15. From point near quarter corner between secs. 14 and 23, T. 24 N., R. 6 W., east along road 1.2 miles to point about 7 miles southwest of Pekin (by G. W. Moore in 1929)	
[Connects with line 7 in Glasford quadrangle]	
T. 24 N., R. 6 W., about 0.25 mi. W. of SE. cor. sec. 14, 25 ft. N. of rd., on E. side of T-rd. N., 10 ft. E. of N.-S. line fence, in root on SE. side of 13-in. Osage-orange tree; copper nail and washer-----	473. 42
16. South 1.9 miles along State Highway 29 to Peoria waterworks (by E. E. Harris in 1929; first-order leveling)	
[Continued from Dunlap quadrangle, line 3]	
Peoria, 300 ft. S. of N. city limits, 1.0 mi. N. of Peoria waterworks, 10 ft. W. of center line of highway, on concrete retaining wall of private driveway; chiseled square-----	470. 23
Peoria, in front yard of waterworks pumping sta.; U. S. C. E. B. M. 55 cap on iron post-----	457. 014
bolt in limestone block-----	
Peoria, near main entrance to pumping sta., on top of lowest stone step; square cut (U. S. C. E. B. M.)-----	453. 031
17. From point 0.9 mile south and 0.6 mile east from Hawley north along roads to Pekin (by S. R. Archer in 1930)	457. 204
[Continued from Delavan quadrangle, line 7]	
Hawley, 0.6 mi. E. thence 0.9 mi. S. from Illinois Central R. R. sta., about 0.18 mi. SE. of center of sec. 26, T. 24 N., R. 5 W., 0.4 mi. N. of crossroads, at angle in rd. at foot of hill, on E. head wall of concrete culvert under highway, 1.5 ft. N. of S. end; chiseled square-----	513. 71

	Feet
Hawley, 0.6 mi. E. thence 0.4 mi. S. from, about 0.1 mi. E. of quarter corner between secs. 23 and 26, just N. of farmhouse on E. side of rd., at concrete culvert under highway, on top of bridge end of W. wing wall of S. abutment; chiseled square	510. 03
Hawley, 0.6 mi. E. of I. C. R. R. sta. at, 4.4 mi. S. of Tazewell County courthouse in Pekin, about 0.2 mi. SE. of center of sec. 23, T. 24 N., R. 5 W., 18 ft. N. and 22 ft. E. from junction of T-rd. W., 45 ft. N. and 20 ft. E. from N. end of steel highway bridge, in concrete post; standard tablet stamped "18 A 1930"	515. 415
Pekin, 3.3 mi. S. of, 0.25 mi. E. of center of sec. 14, 30 ft. S. of cross-roads, at S. concrete abutment of highway bridge, on top of SE. end of E. wing wall; chiseled square	518. 08
Pekin, 2.5 mi. S. of, near center of SE $\frac{1}{4}$ sec. 11, T. 24 N., R. 5 W., on W. side of rd., at top of hill and junction of private rd. E., on N. side of driveway to farmhouse, inside fence, in root on E. side of 24-in. hackberry tree; copper nail and washer	528. 89
Pekin, 1.9 mi. S. of courthouse, 0.14 mi. S. of city limits, 0.14 mi. S. and 0.25 mi. W. from NE. cor. sec. 11, T. 24 N., R. 5 W., on E. side of rd., in NW. corner of yard of residence, in root on NW. side of 36-in. tree, northernmost of two maple trees 25 ft. apart; copper nail and washer	540. 65
Pekin, at SW. corner of intersection of Court and South Fourteenth Streets, on S. side of storm sewer opening, on top of concrete curb; chiseled square	527. 33
Pekin, at courthouse, at S. side of steps to E. entrance, on top of E. end of S. granitic buttress, in E. side at foot of electric light pedestal; standard tablet stamped "1930 482" (recovered by U. S. C. & G. S. in 1935)	481. 147
18. From Pekin generally southeast along State Highway 9 and other roads to point 0.4 mile west of Tremont (by S. R. Archer in 1930)	
Pekin, 2.2 mi. SE. of courthouse at, near center of SE $\frac{1}{4}$ sec. 1, T. 24 N., R. 5 W., 365 ft. SE. of rd. junction, on E. side of highway, in root on NW. side of SW. fork of three-forked cottonwood tree; copper nail and washer	633. 53
Pekin, 2.8 mi. SE. of, about 0.15 mi. N. of quarter corner between secs. 7 and 12, T. 24 N., Rs. 4 and 5 W., near SE. end of curve in highway, 65 ft. SE. and 40 ft. SW. from range line crossing highway and private rd. S., on S. side of highway, 15 ft. SE. of fence corner, directly under high-power electric line, in concrete post; standard tablet stamped "16 A 1930"	644. 008
Reference mark, 500 ft. SE. of range line crossing highway and private rd. S., on top of NW. end of SW. head wall of concrete culvert; chiseled square	638. 04
Pekin, 3.7 mi. SE. of, about 0.2 mi. NW. of SE. cor. sec. 7, T. 24 N., R. 4 W., 300 ft. SE. of junction of rd. S., on top of E. end of S. head wall of concrete culvert; chiseled square	633. 45
Pekin, 4.5 mi. SE. of, 2.0 mi. W. of Leslie, near N $\frac{1}{4}$ cor. sec. 17, T. 24 N., R. 4 W., in SE. corner of crossroads, on top of E. head wall of concrete culvert under rd. S.; chiseled square	665. 68
Leslie, 0.7 mi. W. of, 0.28 mi. E. of quarter corner between secs. 9 and 16, T. 24 N., R. 4 W., on top of E. end of N. head wall of concrete culvert; chiseled square	671. 94

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Leslie, just W. of sta., near quarter corner between secs. 10 and 15, T. 24 N., R. 4 W., in SW. corner of junction of rd. S., on S. side of Cleveland, Cincinnati, Chicago & St. Louis R. R. track, on top of S. end of W. concrete head wall of drain under rd. S.; chiseled square—	Feet 711. 68
Leslie, 0.5 mi. SE. of, 0.15 mi. S. of NE. cor. sec. 15, T. 24 N., R. 4 W., 45 ft. W. of crossroads, on S. side of R. R. track, on top of W end of N. angular head wall of concrete culvert under highway; chiseled square—	682. 62
Leslie, 0.5 mi. SE. thence 1.1 mi. S. from, 2.2 mi. W. of Tremont, 0.25 mi. S. of NW. cor. sec. 23, T. 24 N., R. 4 W., 60 ft. N. of crossroads, on top of N. end of E. head wall of concrete culvert; chiseled square—	637. 01
Tremont, 1.5 mi. W. of, about 0.3 mi. NE. of center of sec. 23, T. 24 N., R. 4 W., 75 ft. E. of bridge over Dillon Creek, on N. side of rd., at fence line, in root on S. side of 6-in. hackberry tree; copper nail and washer ²⁸ —	615. 92
Tremont, 0.8 mi. W. of, 0.1 mi. E. of center of NW $\frac{1}{4}$ sec. 24, T. 24 N., R. 4 W., on N. side of rd., 30 ft. SE. of SE. corner of farmhouse, in yard, in root on S. side of 18-in. maple tree; copper nail and washer—	638. 66
[Connects with line 7 in Mackinaw quadrangle]	
19. From Cedar Street bridge over Illinois River in Peoria generally west along streets and roads to Peoria airport (by S. R. Archer in 1938; spur line leveled twice)	
Peoria, at N. end of Cedar Street high-level highway bridge over Illinois River, at foot of second land pier from river bank, in top of E. end of concrete horizontal base of piers; bronze tablet (U. S. C. E. B. M.)—	459. 995
Peoria, at N. end of Cedar Street high-level highway bridge over Illinois River, at foot of first land pier from river bank, on N. side of Chicago, Rock Island & Pacific R. R. tracks, in top of E. end of concrete horizontal base of piers; bronze tablet (U. S. C. E. B. M.)—	455. 415
Peoria, in SW. part of, at Peoria and Pekin Union R. R. bridge over Illinois River, in top of E. end of N. concrete abutment; copper bolt (U. S. C. E. B. M.)—	463. 937
Peoria, in SW. part of, in NW. corner of intersection of C. R. I. & P. R. R. and Darst Street, just W. of Century Distillery, just E. of Albers Bros. Milling Co. plant, on top of SW. corner of concrete base of electric warning signal; chiseled square—	455. 16
Peoria, in SW. part of, near Iowa junction, at old South Adams Street three-way viaduct over R. R. tracks, at E. end of E. section of viaduct on street leading to National Distillery, 2.5 ft. W. of E. end and inside S. railing, directly below nameplate set in face of railing, on top of concrete curb; chiseled square—	460. 78
Peoria, in SW. part of, about 0.8 mi. NE. of Bartonville, on lawn in front of office building of National Distillery Co., in concrete post with metal strip fastened to top and stamped "B M 464.61 M D"; bolt—	457. 571
Bartonville, at E. edge of, on S. side of W. end of State highway bridge over Kickapoo Creek, on top of parapet of concrete abutment; chiseled square (Sanitary District B. M.)—	461. 91

²⁸ Established as a reference mark to aluminum tablet stamped "611 Peoria," described in line 5.).

	Feet
Bartonville, 760 ft. W. of rd. fork at main part of town, in NE. corner of junction of street, at corner near W. end of N. head wall of concrete culvert under street, on E. side of corner post of iron railing; chiseled square	474.90
Bartonville, 0.8 mi. W. of, at angle in rd. at foot of bluff hill, 100 ft. W. of coal tipple, on top of W. end of N. head wall of concrete culvert; chiseled square	531.35
Bartonville, 1.7 mi. W. of, 0.5 mi. S. of Peoria airport, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 23, T. 8 N., R. 7 E., 240 ft. E. of crossroads, on top of W. end of N. head wall of concrete culvert under rd. E.; chiseled square	634.74
Peoria airport, about 0.2 mi. N. of quarter corner between secs. 22 and 23, T. 8 N., R. 7 E., 230 ft. S. of main entrance to airport and junction of T-rd. E., 43 ft. W. of center line of N.-S. highway, 100 ft. S. and 40 ft. E. from SE. corner of residence, 2 ft. S. and 18 ft. W. from power-line pole, at center of air beacon tower, in concrete post; standard tablet stamped "650"	650.170

PETERSBURG QUADRANGLE

[Latitude $40^{\circ}00'$ – $40^{\circ}15'$; longitude $89^{\circ}45'$ – $90^{\circ}00'$]

CASS, MASON, AND MENARD COUNTIES

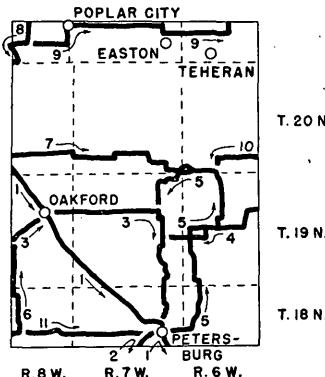


FIGURE 141.—Lines of leveling in Petersburg quadrangle.

1. From point 1.2 miles southeast of Kilbourne southeast along Chicago, Peoria & St. Louis Railroad²⁰ to point 0.9 mile southeast of Petersburg (by R. C. Howard in 1905; double-rodded line)

[Continued from Chandlerville quadrangle, line 1]

Oxford, at Lutes Bros. store, in W. wall, in brick foundation, 2 ft. from SW. corner; aluminum tablet stamped "1905 495 Adj" and "3 S 1928" (recovered by U. S. C. & G. S. in 1934)-----

Feet
494.760

Atterbury (Atterberry post office), at grain elevator of W. C. Kopplein, in NW. corner of stone foundation; aluminum tablet stamped "1905 609 Adj"-----

601.480

Petersburg, at Menard County courthouse, in N. wall, 2 ft. E. of entrance, 4 ft. above ground; aluminum tablet stamped "1905 524 Adj" (recovered by U. S. C. & G. S. in 1934)-----

523.608

[Continued in Tallula quadrangle, line 1]

2. From Petersburg west 0.6 mile along streets, thence southwest 1 mile along Alton Railroad (by Henry Bücher in 1906)

Petersburg, 0.6 mi. W. of, at SE. corner of stone abutment of wagon bridge over Alton R. R., on top of bottom course of masonry, third course from top; chiseled square-----

600.08

[Continued in Tallula quadrangle, line 2]

3. From point about 2.5 miles southwest of Oxford along roads northeast to Oxford, thence east 6 miles, thence generally south to Petersburg (by F. E. Fletcher in 1908)

[Continued from Chandlerville quadrangle, line 2]

Oxford, about 2 mi. E. of, about 0.25 mi. E. of SW. cor. sec. 7, T. 19 N., R. 8 W., at rd. junction, in concrete post; aluminum tablet-----

522.134

²⁰ Now the Chicago & Illinois Midland Ry.

Oakford, 6.0 mi. E. of, 7.8 mi. N. of Petersburg, 0.25 mi. W. of SE. cor. sec. 11, T. 19 N., R. 7 W., 55 ft. W. of junction of N.-S. rd., on N. side of rd.; aluminum tablet stamped "T T Sta No 5 S 1928" (recovered in 1922)	Feet 550. 556
Petersburg, 5.5 mi. N. of, near SE. cor. sec. 23, T. 19 N., R. 7 W., at bridge over Concord Creek, on cap of NE. leg; bolt head	501. 19
Petersburg, 4.3 mi. N. of, in SE $\frac{1}{4}$ sec. 26, T. 19 N., R. 7 W., 185 ft. N. of rd. fork, on E. side of rd., near hedge, in concrete post; aluminum tablet stamped "T T Sta No 6 S 1928"	513. 643
4. From point 1.5 miles north and 0.8 mile west from Greenview alternately west and south along roads to bridge over Concord Creek at point about 5.5 miles north of Petersburg (by P. E. Fletcher in 1908)	
[Continued from Mason City quadrangle, line 1]	
Greenview, 1.5 mi. N. thence 1.5 mi. W. from, at N $\frac{1}{4}$ cor. sec. 15, T. 19 N., R. 6 W.; top of stone marking quarter corner	505. 26
Petersburg, 5.0 mi. N. and 1.4 mi. E. from, at bridge over Sangamon River; surface of water Sept. 6, 1908	475. 6
5. From Petersburg along roads east 0.8 mile, thence generally north to northeast corner sec. 5, T. 19 N., R. 6 W., thence west and south to road junction 6 miles east of Oakford (by E. O. Brooks in 1922)	
Petersburg, 1.3 mi. E. of, near W $\frac{1}{4}$ cor. sec. 18, T. 18 N., R. 6 W., 40 ft. E. of range line, on S. side of rd., in root on N. side of 12-in. maple tree; copper nail and washer	605. 04
T. 18 N., R. 6 W., near SE. cor. sec. 6, at jog in rd. and junction of rd. E., on N. side of rd. E., opposite center line of rd. S., 170 ft. E. of right-angle turn N. in rd., 1 ft. S. of right-of-way fence, in concrete post; standard tablet stamped "24 EB 1922"	512. 680
Reference mark, 35 ft. S. and 110 ft. E. from tablet, 15 ft. S. and 110 ft. E. from rd. junction, in root on S. side of 42-in. elm tree; copper nail and washer	512. 85
T. 19 N., R. 6 W., near S $\frac{1}{4}$ cor. sec. 19, 15 ft. N. and 5 ft. W. from stone marking quarter corner, in root on NE. side of 18-in. white-oak tree; copper nail and washer	561. 38
T. 19 N., R. 6 W., near center of sec. 19, 4.5 mi. W. of Greenview, 18 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "25 EB 1922" and "T T Sta"	516. 250
Reference mark, 37 ft. N. and 6 ft. W. from tablet, in NE. angle of crossroads, in root on W. side of 36-in. elm tree; copper nail and washer	515. 59
T. 19 N., R. 6 W., near SW. cor. sec. 17, 15 ft. N. and 95 ft. E. from junction of T-rd. N., in root on W. side of 12-in. elm tree; copper nail and washer	503. 31
T. 19 N., R. 6 W., near SW. cor. sec. 16, in NE. angle of crossroads, 2 ft. N. and 1 ft. W. from fence corner; iron pipe driven in ground	509. 46
T. 19 N., R. 6 W., 0.25 mi. E. of SW. cor. sec. 9, 35 ft. N. and 18 ft. E. from crossroads, in concrete post; standard tablet stamped "26 EB 1922"	500. 114
T. 19 N., R. 6 W., 0.25 mi. E. and 500 ft. S. from NW. cor. sec. 9, at SE. corner of steel bridge over small drain, on corner of concrete retaining wall; chiseled square	488. 25

T. 19 N., R. 6 W., near NE. cor. sec. 5, 100 ft. S. and 60 ft. W. from junction of T-rd. W., at concrete bridge over small drain, on E. end of S. head wall; chiseled square (recovered in 1929)	Feet 509. 81
T. 20 N., R. 7 W., 0.25 mi. N. of SE. cor. sec. 36, in NW. angle of junction of rd. N., at corner of right-of-way line, 40 ft. N. of levee; standard iron post with bronze cap stamped "27 EB 1922"	488. 950
Reference mark, 12 ft. W. of iron post, 2 ft. above ground, on W. side of 8-in. cottonwood tree; copper nail and washer	491. 02
T. 19 N., R. 7 W., 0.25 mi. W. of center of sec. 1, at old ford across Sangamon River, 50 ft. N. of river bank, in root on E. side of 36-in. cottonwood tree; copper nail and washer	478. 13
T. 19 N., R. 7 W., 0.25 mi. W. of SE. cor. sec. 2, 6.0 mi. E. thence 1.0 mi. N. from Oakford, in NW. angle of crossroads, in fence corner, in root on E. side of 24-in. elm tree; copper nail and washer	570. 17
6. From point 0.5 mile north and 0.7 mile east from Newmansville along roads east 0.4 mile, thence generally north to point about 2.5 miles southwest of Oakford (by W. E. Baird in 1928)	

[Continued from Chandlerville quadrangle, line 6]

Newmansville, 0.5 mi. N. and 1.0 mi. E. from, near Cass-Menard county line, near quarter corner between secs. 15 and 16, T. 18 N., R. 8 W., in grass triangle at junction of T-rd. S., 25 ft. S. of rd., 450 ft. W. of farmhouse of Amos Shonewise; standard iron post with bronze cap stamped "Prim Tray Sta No 9 1905" (recovered in 1929) ³⁰	613. 960
Reference mark, 75 ft. N. and 100 ft. W. from rd. junction, in root on N. side of tree; copper nail and washer (recovered in 1929)	615. 13
Newmansville, 1.5 mi. N. and 1.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 10, T. 18 N., R. 8 W., 25 ft. S. and 20 ft. E. from crossroads, in root on W. side of 16-in. elm tree; copper nail and washer	601. 11
Newmansville, 2.5 mi. N. and 0.8 mi. E. from, 1,220 ft. W. of E $\frac{1}{4}$ cor. sec. 4, T. 18 N., R. 8 W., 100 ft. E. of right-angle bend in rd., on S. head wall of concrete culvert; chiseled square	585. 58
Newmansville, 3.2 mi. N. and 0.8 mi. E. from, 2.5 mi. SW. thence 2.2 mi. S. from Oakford, in SE $\frac{1}{4}$ sec. 33, T. 19 N., R. 8 W., 30 ft. N. and 20 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 23 JLS 1927"	589. 892
Reference mark, 190 ft. N. and 20 ft. W. from rd. junction, in root on W. side of 20-in. hickory tree; copper nail and washer	591. 09
Oakford, 2.5 mi. SW. thence 1.1 mi. S. from, in SE $\frac{1}{4}$ sec. 28, T. 19 N., R. 8 W., 30 ft. S. and 10 ft. W. from junction of T-lane E. to farmhouse, in root on SE. side of 36-in. oak 'trée; copper nail and washer	580. 00
Oakford, 2.5 mi. SW. of, 0.25 mi. W. of Cass-Menard county line, in SE $\frac{1}{4}$ sec. 21, T. 19 N., R. 8 W., on Chandlerville-Oakford river rd., 200 ft. S. of junction of rd. S. to Newmansville, 60 ft. SE. of farmhouse of Louis Keithley, in concrete post; standard tablet stamped "T T Sta No 24 JLS 1927"	499. 217
Reference mark, 50 ft. S. and 50 ft. W. from rd. junction, in root on W. side of 30-in. oak tree; copper nail and washer	492. 22

[Connects with line 2 in Chandlerville quadrangle]

³⁰ In 1929 it was reported that this bench mark had been disturbed by traffic.

7. From point 0.2 mile south and 0.6 mile east from Kilbourne generally east along roads to northeast corner sec. 5, T. 19 N., R. 6 W. (by L. V. Johnson in 1928)

[Continued from Chandlerville quadrangle, line 7]

Kilbourne, 0.2 mi. S. and 0.8 mi. E. from, 200 ft. W. of SE. cor. sec. 28, T. 20 N., R. 8 W., 25 ft. N. of center line of rd., in knob on E. side of double-trunked oak tree; copper nail and washer-----	Feet 502. 60
Kilbourne, 0.2 mi. S. and 1.8 mi. E. from, near N. cor. secs. 34 and 35, T. 20 N., R. 8 W., 65 ft. E. of N.-S. fence line, 10 ft. S. of center line of rd., in root on NW. side of 24-in. oak tree; copper nail and washer-----	513. 90
Kilbourne, about 2.5 mi. E. of, in SE $\frac{1}{4}$ sec. 26, T. 20 N., R. 8 W., 100 ft. E. of farmhouse of Pearl Toland, 20 ft. E. of large elm tree, in concrete post; standard tablet stamped "1 LJ 1928"-----	497. 694
Reference mark, 20 ft. W. of tablet, in root on SE. side of double-trunked elm tree; copper nail and washer-----	497. 23
T. 20 N., R. 7 W., about 0.3 mi. N. of center of sec. 32, 40 ft. S. of center line of rd., in line with T-rd. N., in root on N. side of 15-in. elm tree; copper nail and washer-----	475. 60
T. 20 N., R. 7 W., near S $\frac{1}{4}$ cor. sec. 28, about 6 mi. E. of Kilbourne, 21 ft. N. and 15 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 50 JLS 1927"-----	478. 215
T. 20 N., R. 7 W., near SE. cor. sec. 27, 1,300 ft. W. of junction of N.-S. rd., 35 ft. N. of center line of rd., in root on SW. side of double-trunked tree; copper nail and washer-----	481. 42
T. 20 N., R. 7 W., in NW $\frac{1}{4}$ sec. 35, at angle in rd., 15 ft. from center line of rd., in root on NE. side of 16-in. cottonwood tree; copper nail and washer-----	478. 32
T. 20 N., R. 7 W., about 0.15 mi. E. of SW. cor. sec. 36, 10 ft. S. and 10 ft. W. from rd. junction, 12 ft. E. of lone 12-in. cottonwood tree, in concrete post; standard tablet stamped "2 LJ 1928" (recovered in 1929)-----	482. 293
Reference mark, 10 ft. W. of tablet, 10 ft. S. and 20 ft. W. from rd. junction, in root on SE. side of lone 12-in. cottonwood tree; copper nail and washer (recovered in 1929)-----	480. 62
T. 19 N., R. 6 W., near N $\frac{1}{4}$ cor. sec. 6, 40 ft. S. and 70 ft. E. from rd. junction, about 200 ft. SW. of farmhouse, in knob on E. side of 16-in. maple tree; copper nail and washer (recovered in 1929) ^a -----	484. 29
T. 19 N., R. 6 W., near N $\frac{1}{4}$ cor. sec. 5, 30 ft. S. and 50 ft. E. from junction of T-rd. N., 100 ft. N. of farmhouse, in root on N. side of 30-in. cottonwood tree; copper nail and washer (recovered in 1929)-----	490. 27

8. From point 0.2 mile north and 2.2 miles west from Poplar City along roads south, west, southeast, and west to point 2 miles east of Long Branch (by G. W. Moore in 1928)

[Continued from Manito quadrangle, line 4]

Poplar City, 0.7 mi. S. and 2.2 mi. W. from, near center of SE $\frac{1}{4}$ sec. 27, T. 21 N., R. 8 W., 35 ft. N. and 15 ft. E. from rd. junction, in root on SW. side of 9-in. chestnut tree; copper nail and washer-----	513. 78
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^aThis bench mark is 195 ft. SW. of the tablet stamped "T T Sta No 49 JLS 1927," described in line 10.

	Feet
Poplar City, 1.0 mi. S. thence 2.2 mi. W. from, 0.25 mi. W. of SE. cor. sec. 27, T. 21 N., R. 8 W., 20 ft. N. and 20 ft. E. from junction of E.-W. rd., 40 ft. E. of N.-S. line fence, in fence corner, in root on NE. side of 18-in. oak tree; copper nail and washer	520.33
Poplar City, 1.0 mi. S. thence 3.0 mi. W. from, 95 ft. S. of NE. cor. sec. 33, T. 21 N., R. 8 W., 20 ft. W. of rd., 95 ft. S. of bend from W. to S. in rd., 200 ft. N. of bend from S. to W., 95 ft. S. and 2.5 ft. E. of fence corner, in root on SE. side of multiple boxelder tree; copper nail and washer	503.23
Poplar City, 1.5 mi. S. and 3.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 34, T. 21 N., R. 8 W., 35 ft. W. of rd. SE., in small park near house of James Hawks, in root on SW. side of 21-in. walnut tree; copper nail and washer	497.61
Poplar City, 2.0 mi. S. and 2.7 mi. W. from, 2.4 mi. E. of Long Branch, in SW $\frac{1}{4}$ sec. 34, T. 21 N., R. 8 W., 310 ft. NW. of crossroads, 75 ft. W. of highway, 90 ft. E. of house, in root on E. side of 30-in. maple tree; copper nail and washer	507.02
[Continued in Chanderville quadrangle, line 8]	
9. From road junction 1 mile south and 2.2 miles west from Poplar City along roads east and north to Poplar City, thence generally east to point 1.8 miles north and 1 mile east from Teheran (by G. W. Moore in 1929)	
Poplar City, 1.0 mi. S. thence 1.6 mi. W. from, 0.35 mi. E. of NW. cor. sec. 35, T. 21 N., R. 8 W., 25 ft. S. and 15 ft. W. from junction of T-rd. S., 5.5 ft. S. and 2.5 ft. W. from fence corner, in root on N side of 16-in. oak tree; copper nail and washer	508.67
Poplar City, 1.0 mi. S. thence 1.0 mi. W. from, 240 ft. E. of SW. cor. sec. 25, T. 21 N., R. 8 W., 240 ft. E. of line fence, 15 ft N. of rd., on S. edge of drainage ditch, in root on SW. side of 24-in. twin elm tree; copper nail and washer	496.45
Poplar City, 1.0 mi. S. of, near NE. cor. sec. 36, T. 21 N., R. 8 W., 24 ft. S. and 48 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 44 JLS 1927"	505.222
Reference mark, 40 ft. N. and 35 ft. E. from crossroads, in root on NW. side of multiple maple tree; copper nail and washer	504.73
Poplar City, 68 ft. N. and 22 ft. E. from Illinois Central R. R. crossing, in small park at junction of rd. E., in root on S. side of twin locust tree; copper nail and washer	503.50
Poplar City, 0.9 mi. E. of, about 0.1 mi. W. of NE. cor. sec. 30, T. 21 N., R. 7 W., 170 ft. E. of N.-S. line fence, 25 ft. S. and 15 ft. E. from junction of private T-rd. S., 545 ft. W. of junction of T-rd. N., 4 ft. E. of fence corner, in root on N. side of 11-in. elm tree; copper nail and washer	498.20
Poplar City, 2.0 mi. E. of, 0.3 mi. N. of Biggs, near NW cor. sec. 28, T. 21 N., R. 7 W., 45 ft. S. and 20 ft. E. from junction of T-rd. S., 80 ft. W. of junction of T-rd. N., in root on NE side of 48-in. cottonwood tree; copper nail and washer	496.71
Poplar City, 3.0 mi. E. of, 1.0 mi. N. thence 2.0 mi. W. from Easton, near NE. cor. sec. 28, T. 21 N., R. 7 W., 22 ft. S. and 50 ft. W. from crossroads, 10 ft. N. and 30 ft. W. from fence corner, in concrete post; standard tablet stamped "T T Sta No 45 JLS 1927"	502.242
Reference mark, 65 ft. N. and 18 ft. E. from crossroads, in root on NW. side of 11-in. elm tree; copper nail and washer	498.74

	Feet
Easton, 1.0 mi. N. thence 1.0 mi. W. from, near SW cor. sec. 23, T. 21 N., R. 7 W., 22 ft. N. and 75 ft. E. from junction of T-rd. N., in root on NE. side of 20-in. twin elm tree; copper nail and washer-----	498. 84
Easton, 1.0 mi. N. of, near N. cor. secs. 25 and 26, T. 21 N., R. 7 W., 75 ft. S. of junction of State Highway 43, on top of N. end of E. head wall of concrete culvert under highway; chiseled square-----	504. 53
Easton, 0.5 mi. N. of, 250 ft. S. of Easton high school, near quarter corner between secs. 25 and 26, T. 21 N., R. 7 W., at concrete culvert under T-rd. E., on top of E. end of N. head wall; chiseled square-----	505. 44
Easton, 0.5 mi. N. thence 1.0 mi. E. from, 1.0 mi. N. thence 1.5 mi. W. from Teheran, near E $\frac{1}{4}$ cor. sec. 25, T. 21 N., R. 7 W., 20 ft. S. and 170 ft. W. from crossroads and jog in rd., 5 ft. N. and 140 ft. W. from fence corner, in concrete post; standard tablet stamped "T T Sta No 46 JLS 1927"-----	518. 454
Teheran, 1.0 mi. N. thence 1.0 mi. W. from, near center of sec. 30, T. 21 N., R. 6 W., 20 ft. N. and 23 ft. W. from junction of T-rd. N., 50 ft. W. of line fence, in root on SE. side of 34-in. maple tree used as fence corner; copper nail and washer-----	512. 25
Teheran, 1.0 mi. N. of, near center of sec. 29, T. 21 N., R. 6 W., in SE. corner of crossroads, at iron bridge culvert over drainage ditch, on top of E. end of S. concrete wing wall; chiseled square-----	523. 26
Teheran, 1.0 mi. N. thence 1.0 mi. E. from, near center of sec. 28, T. 21 N., R. 6 W., 920 ft. E. of Leveldale School, 32 ft. S. and 25 ft. W. from crossroads, 3 ft. S. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "T T Sta No 47 JLS 1927"-----	537. 064
Reference mark, 23 ft. N. and 35 ft. E. from crossroads, 2 ft. S. and 15 ft. E. from fence corner, in root on N. side of 9-in. Osage-orange tree; copper nail and washer-----	537. 79

[Continued in Manito quadrangle, line 5]

10. From point 3.8 miles south and 2.7 miles west from Mason City along roads alternately west and south to point about 0.15 mile east of southwest corner sec. 36, T. 20 N., R. 7 W. (by G. W. Moore in 1929)

[Continued from Mason City quadrangle, line 2]

Mason City, 3.8 mi. S. and 3.5 mi. W. from, 0.25 mi. N. of center of sec. 34, T. 20 N., R. 6 W., 30 ft. N. and 130 ft. W. from junction of T-rd. N., in root on E. side of 13-in. boxelder tree; copper nail and washer-----	559. 69
T. 20 N., R. 6 W., 0.25 mi. N. of center of sec. 33, 30 ft. S. and 8 ft. E. from junction of T-rd. N., 6 ft. S. of fence corner; in root on W. side of 10-in. Osage-orange tree; copper nail and washer-----	567. 67
T. 20 N., R. 6 W., 1,500 ft. S. of NE. cor. sec. 32, 4.0 mi. N. and 3.0 mi. W. from Greenview, 90 ft. S. and 30 ft. W. from junction of N.-S. rd., on high bank, near large gate, in concrete post; standard tablet stamped "T T Sta No 48 JLS 1927"-----	630. 414
Reference mark, 20 ft. N. and 15 ft. E. from rd. junction, on high bank, 4.5 ft. S. of fence corner, in root on W. side of 15-in. elm tree; copper nail and washer-----	629. 28
Tps. 19 and 20 N., R. 6 W., near approximate quarter corner between secs. 6 and 31, 20 ft. SE. of SE. corner of farmhouse of C. J. Herget, near corner of yard fence, in concrete post; standard tablet stamped "T T Sta No 49 JLS 1927"-----	484. 853

11. From road junction 0.5 mile north and 1 mile east from Newmansville east along road to Petersburg (by G. W. Moore in 1929)

	Feet
Newmansville, 0.5 mi. N. and 2.0 mi. E. from, 7.0 mi. W. of Petersburg, near E $\frac{1}{4}$ cor. sec. 15, T. 18 N., R. 8 W., 25 ft. S. and 135 ft. W. from junction of T-rd. S., 75 ft. W. of N.-S. line fence, in root on NW. side of 7-in. Osage-orange tree; copper nail and washer-----	617.45
Petersburg, 6.4 mi. W. of, near center of sec. 14, T. 18 N., R. 8 W., 65 ft. E. of N.-S. line fence and bend NE. in rd., in small park at top of hill, in root on NW. side of 42-in. oak tree used as telephone pole; copper nail and washer-----	610.22
Petersburg, 5.7 mi. W. of, in NW $\frac{1}{4}$ sec. 13, T. 18 N., R. 8 W., about 0.14 mi. NW. of bend from SE. to E. in rd., 100 ft. W. of SW. corner of house, on top of SE. end of NE. head wall of concrete culvert; chiseled square-----	534.12
Petersburg, 4.8 mi. W. of, near E $\frac{1}{4}$ cor. sec. 13, T. 18 N., R. 8 W., 25 ft. N. and 35 ft. W. from crossroads, 8 ft. W. of concrete steps, in root on SW. side of 36-in. oak tree; copper nail and washer-----	596.55
Petersburg, 3.9 mi. W. of, 3.2 mi. S. of Atterberry, near E $\frac{1}{4}$ cor. sec. 18, T. 18 N., R. 7 W., 35 ft. S. of highway, 60 ft. W. of junction of T-rd. N., in root on N. side of 18-in. maple tree; copper nail and washer-----	588.15
Petersburg, 3.4 mi. W. of, near center of sec. 17, T. 18 N., R. 7 W., 255 ft. W. of junction of T-rd. S., 4.5 ft. SW. of pump at Little Grove School, in concrete walk; standard tablet stamped "T T Sta No 11 S 1928"-----	594.231
Reference mark, 195 ft. E. of tablet, in schoolyard, 60 ft. S. and 60 ft. W. from rd. junction, 35 ft. S. and 30 ft. W. from fence corner, in root on SE. side of 18-in. elm tree; copper nail and washer-----	595.08
Petersburg, 2.6 mi. W. of, 0.25 mi. W. of center of sec. 16, T. 18 N., R. 7 W., 25 ft. S. of highway, 12 ft. N. of large white arched entrance to Melcher farm, on top of W. curb of private drive S.; chiseled square-----	602.44
Petersburg, 1.6 mi. W. of, 0.25 mi. W. of center of sec. 15, T. 18 N., R. 7 W., 0.25 mi. E. of T-rd. S., 0.25 mi. W. of junction of T-rd. N., 9 ft. W. of N.-S. line fence, 18 ft. S. of paved highway, on top of W. head wall of small concrete culvert under private T-rd. S.; chiseled square-----	603.30
Petersburg, 0.9 mi. W. of, 0.21 mi. W. of city limits, 230 ft. E. of W $\frac{1}{4}$ cor. sec. 14, T. 18 N., R. 7 W., 1,200 ft. W. of overhead crossing of Chicago & Alton R. R., 230 ft. E. of N.-S. line fence, near race track, on top of W. end of N. head wall of concrete culvert; chiseled square-----	605.34

PITTSFIELD QUADRANGLE

[Latitude $39^{\circ}30'$ - $39^{\circ}45'$; longitude $90^{\circ}45'$ - $91^{\circ}00'$]

PIKE COUNTY

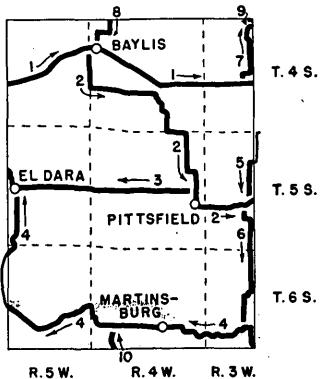


FIGURE 142.—Lines of leveling in Pittsfield quadrangle.

1. From point 2.2 miles east of Barry generally east along Wabash Railway to point 1 mile west of Griggsville (by R. G. Clinite in 1914)

[Continued from Barry quadrangle, line 1]

	Feet
Hadley, 80 ft. S. and 60 ft. E. from sta., 3.7 mi. E. of Barry, on W. side of N.-S. rd.; standard iron post with bronze cap stamped "757" (recovered in 1925)	756.413
Hadley, 3.7 mi. NE. of, 0.5 mi. W. of Baylis, 400 ft. S. of crossing of N.-S. rd., 130 ft. N. of junction of T.-rd. W., on W. side of rd., opposite junction of rd. E., 1.5 ft. E. of fence; standard iron post with bronze cap stamped "841" (recovered by U. S. C. & G. S. in 1935)	841.074
Baylis, 2.9 mi. SE. of sta., 1.1 mi. NW. of sta. at New Salem, in NW. angle of crossing of E.-W. rd., 20 ft. S. of right-of-way line, 2 ft. W. of gate; standard iron post with bronze cap stamped "730" (recovered by U. S. C. & G. S. in 1935)	730.323
New Salem, 1.3 mi. E. of sta., 1.2 mi. W. of Maysville Sta., in SE. angle of crossing of N.-S. rd., 66 ft. S. of track, 32 ft. E. of rd., 12 ft. S. and 1 ft. E. from corner of fences along right-of-way and rd., in cultivated field; standard iron post with bronze cap stamped "730" (recovered by U. S. C. & G. S. in 1935)	729.713
Maysville Sta., 1.8 mi. E. of, 1.6 mi. W. of sta. at Griggsville, in SW. angle of crossing of N.-S. rd., 125 ft. S. of track, 20 ft. W. of rd., standard iron post with bronze cap stamped "660" and "Prim Trav Sta No 59 W 1923 H 2" (recovered in 1927)	659.724

[Continued in Griggsville quadrangle, line 1]

2. From Baylis alternately south and east along roads to Pittsfield, thence east along State Highway 36 to point 3 miles east of Pittsfield (by W. A. Shumate in 1921)	
Baylis, 0.4 mi. W. thence 2.0 mi. S. from, near W. cor. secs. 19 and 30, T. 4 S., R. 4 W., on S. side of E.-W. rd., in line with rd. N., in base of 30-in. elm tree; 40-penny spike-----	Feet 772. 87
Baylis, 0.6 mi. E. thence 2.0 mi. S. from, near E. cor. secs. 19 and 30, T. 4 S., R. 4 W., on S. side of E.-W. rd., in line with T-rd. N., in base of 6-in. elm tree; nail-----	811. 52
Baylis, 1.6 mi. E. thence 2.0 mi. S. from, 0.7 mi. S. and 1.6 mi. W. from New Salem, near NE. cor. sec. 29, T. 4 S., R. 4 W., in SW. angle of crossroads, 2 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "1921 818"-----	818. 309
Reference mark, at crossroads, in root of 18-in. maple tree; nail-----	817. 25
New Salem, 0.7 mi. S. of, near S $\frac{1}{4}$ cor. sec. 22, T. 4 S., R. 4 W., in NE. angle of crossroads, on concrete culvert; chiseled square-----	773. 74
New Salem, 1.8 mi. S. and 0.4 mi. E. from, 0.3 mi. E. of Gray School, near SW. cor. sec. 26, T. 4 S., R. 4 W., in NE. angle of crossroads, 5 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "1921 730"-----	729. 837
New Salem, 2.8 mi. S. and 0.4 mi. E. from, 3.8 mi. N. and 1.7 mi. W. from Pittsfield, near NE. cor. sec. 3, T. 5 S., R. 4 W., at offset crossroads, on S. side of township-line rd., in line with rd. N., in root of 30-in. maple tree; copper nail and washer-----	688. 11
Pittsfield, 3.8 mi. N. and 0.7 mi. W. from, near N. cor. secs. 1 and 2, T. 5 S., R. 4 W., at offset crossroads, 100 ft. S. and 150 ft. E. from junction of rd. N., on W. side of rd. S.; on concrete steps; chiseled square-----	709. 91
Pittsfield, 2.8 mi. N. and 0.7 mi. W. from, near SE. cor. sec. 2, T. 5 S., R. 4 W., 50 ft. S. of junction of rd. E., on W. side of rd., on W. end of N. abutment of bridge over Bay Creek; chiseled square-----	672. 39
Pittsfield, 1.8 mi. N. and 0.7 mi. W. from, near SW. cor. sec. 12, T. 5 S., R. 4 W., on NE. side of right-angle turn in rd., opposite private rd. W., on concrete culvert; chiseled square-----	696. 57
Pittsfield, 1.3 mi. N. and 0.2 mi. W. from, near center of sec. 13, T. 5 S., R. 4 W., on E. side of rd., on E. end of N. abutment of bridge over Panther Creek; chiseled square-----	669. 80
Pittsfield, at N. entrance to Pike County courthouse, at E. end of steps, in stone coping; standard tablet stamped "1921 740" and "Prim Trav Sta No 70 W 1923"-----	739. 882
Reference mark, on N. side of courthouse grounds, on S. side of Adams Street, on concrete curb around top of well; chiseled square-----	735. 61
Pittsfield, 0.7 mi. E. of, 0.12 mi. NW. of S $\frac{1}{4}$ cor. sec. 19, T. 5 S., R. 3 W., on N. side of rd., in root of 48-in. silver-maple tree; copper nail and washer-----	722. 94
Pittsfield, 1.9 mi. E. of, 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 20, T. 5 S., R. 3 W., in NE. angle of junction of rd. N., on stone abutment of culvert; chiseled square-----	710. 86
Pittsfield, 2.9 mi. E. of, 4.2 mi. SW. of Detroit, near center of sec. 21, T. 5 S., R. 3 W., on NW. side of rd., 40 ft. W. of junction of rd. N., in root of 48-in. maple tree; copper nail and washer (recovered in 1924)-----	625. 65

[Continued in Griggsville quadrangle, line 2]

3. From Pittsfield generally west along roads to point 1.2 miles northwest of El Dara (by B. H. Yoakum in 1921)

Pittsfield, 0.8 mi. N. and 0.6 mi. W. from Pike County courthouse, 600 ft. E. of SW. cor. sec. 13, T. 5 S., R. 4 W., on coping at N. end of concrete culvert; chiseled square	Feeet 693. 98
Pittsfield, 0.8 mi. N. and 1.7 mi. W. from, near N. cor. secs. 22 and 23, T. 5 S., R. 4 W., at junction of T-rd. N., on S. side of rd., in root on S. side of 16-in. elm tree; 30-penny spike	784. 49
Pittsfield, 0.8 mi. N. and 2.7 mi. W. from, near NW. cor. sec. 22, T. 5 S., R. 4 W., 290 ft. E. of junction of T-rd. N., in center of S. end of concrete culvert; chiseled square	747. 40
Pittsfield, 0.8 mi. N. and 3.2 mi. W. from, near S $\frac{1}{4}$ cor. sec. 16, T. 5 S., R. 4 W., 45 ft. N. and 25 ft. W. from junction of T-rd. N.; standard iron post with bronze cap stamped "1921 809" and "Prim Trav Sta No 71 W 1923"	809. 296
Reference mark, in NE. angle of junction of T-rd. N., in field, in root on N. side of 8-in. oak tree; 30-penny spike	810. 38
Pittsfield, 0.8 mi. N. and 4.2 mi. W. from, 5.7 mi. E. of El Dara, near N $\frac{1}{4}$ cor. sec. 20, T. 5 S., R. 4 W., 25 ft. S. of crossroads, on E. end of concrete culvert under N-S. rd.; chiseled square	810. 43
El Dara, 4.7 mi. E. of, near S $\frac{1}{4}$ cor. sec. 18, T. 5 S., R. 4 W., on N. end of concrete culvert, at center of retaining wall; chiseled square	763. 82
El Dara, 3.9 mi. E. of, 0.15 mi. W. of SE. cor. sec. 13, T. 5 S., R. 5 W., 620 ft. E. of junction of T-rd. S., on N. side of rd., opposite large cottonwood tree, on N. end of small concrete culvert; chiseled square	796. 70
El Dara, 3.5 mi. E. of, near S $\frac{1}{4}$ cor. sec. 13, T. 5 S., R. 5 W., at dwelling of George Irick, on NE. corner of concrete curb around top of well; chiseled square	812. 84
El Dara, 3.0 mi. E. of, at Pleasant View School, near SE. cor. sec. 14, T. 5 S., R. 5 W., 100 ft. NW. of crossroads, in front of schoolhouse, in concrete platform; aluminum tablet stamped "830" and "Prim Trav Sta No 72 W 1923"	830. 470
Reference mark, on SW. corner of concrete platform in front of schoolhouse; chiseled square	830. 45
El Dara, 2.1 mi. E. of, near NE. cor. sec. 23, T. 5 S., R. 5 W., 550 ft. E. of junction of private rd. N., at SE. corner of small bridge; top of iron rail post	745. 20
El Dara, 1.5 mi. E. of, near S $\frac{1}{4}$ cor. sec. 15, T. 5 S., R. 5 W., 45 ft. NE. of crossroads, in root on N. side of 18-in. maple tree; copper nail and washer	758. 00
El Dara, 0.8 mi. E. of, 0.25 mi. W. of NE. cor. sec. 21, T. 5 S., R. 5 W., near junction of private T-rd. N., at SW. corner of small bridge; top of iron rail post	693. 25
El Dara, in SE. angle of crossroads, at NW. corner of brick store building of E. T. Strubinger, in N. face of stone foundation; aluminum tablet stamped "740" and "Prim Trav Sta No 68 W 1923" (recovered in 1926)	740. 531
El Dara, 0.2 mi. W. thence 0.7 mi. N. from, on E. side of rd. to Barry, near small spring and overhanging bluff, on rock outcrop; chiseled square	636. 52

4. From point near quarter corner between secs. 28 and 33, T. 6 S., R. 3 W., generally west along roads by way of Martinsburg to Atlas, thence northwest and northeast to El Dara (by S. R. Archer in 1924)

[Continued from Griggsville quadrangle, line 5]

Martinsburg, 5.9 mi. E. thence 1.0 mi. S. from, 1.5 mi. W. of Clover School, near quarter corner between secs. 28 and 33, T. 6 S., R. 3 W., 30 ft. S. and 20 ft. E. from junction of T-rd. E., 4 ft. S. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 75 W 1923 H 13" (recovered in 1926)	Feet 675. 980
Reference mark, 20 ft. N. and 40 ft. W. from tablet, 10 ft. S. and 25 ft. W. from junction of T-rd. E., at top of embankment, in fence line, 15 ft. S. of fence corner, 15 ft. N. of twin oak tree, in top of crooked trunk on W. side of 10-in. oak tree; copper nail and washer (recovered in 1926)	680. 04
Martinsburg, 5.9 mi. E. of, 0.1 mi. S. of N $\frac{1}{4}$ cor. sec. 28, T. 6 S., R. 3 W., 50 ft. N. and 50 ft. E. from ford across creek, 20 ft. N. and 45 ft. E. from junction of private rd. SE., in root on S. side of 24-in. tree, northwesternmost of group of five hard-maple trees; copper nail and washer	531. 36
Martinsburg, 5.4 mi. E. of, 0.5 mi. S. of Honey Creek School, near SW. cor. sec. 21, T. 6 S., R. 3 W., in NE. angle of junction of T-rd. E., 10 ft. N. of fence corner, in root on SE. side of 15-in. forked elm tree; copper nail and washer	531. 66
Martinsburg, 4.6 mi. E. of, near center of sec. 29, T. 6 S., R. 3 W., 75 ft. W. of angle W. in rd., on S. side of rd., in trunk two ft. above ground on N. side of 48-in. elm tree; copper nail and washer	518. 18
Martinsburg, 4.0 mi. E. of, near quarter corner between secs. 29 and 30, T. 6 S., R. 3 W., on N. side of rd., on W. side of fence line bearing N., in root on S. side of 12-in. elm tree; copper nail and washer	518. 43
Martinsburg, 3.4 mi. E. of, near center of sec. 30, T. 6 S., R. 3 W., 25 ft. S. and 25 ft. W. from junction of second-class rd. W., 15 ft. S. and 4 ft. E. from NE. corner of yard of dwelling of C. Kemener, in root 8 in. underground on N. side of 12-in. elm tree; copper nail and washer	556. 04
Martinsburg, 2.8 mi. E. of, near E $\frac{1}{4}$ cor. sec. 25, T. 6 S., R. 4 W., 45 ft. W. of gate in fence along range line, on N. side of private rd., on S. bank of creek, in root 8 in. underground on SE. side of 24-in. elm tree; copper nail and washer	537. 01
Martinsburg, 1.7 mi. E. of, near center of NW $\frac{1}{4}$ sec. 25, T. 6 S., R. 4 W., 20 ft. S. and 30 ft. W. from junction of N.-S. rd. and T-rd. W., 8 ft. W. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 63 W 1923 A 29"	683. 667
Reference mark, 40 ft. S. and 30 ft. E. from rd. junction, 30 ft. W. of NW. corner of dwelling of Mrs. Lane, in root on NW. side of 12-in. maple tree; copper nail and washer	683. 30
Martinsburg, 0.9 mi. E. of, 0.18 mi. E. of S $\frac{1}{4}$ cor. sec. 23, T. 6 S., R. 4 W., 400 ft. W. of right-angle turn in rd. from S. to W., 200 ft. E. of dwelling, 40 ft. N. of rd., 9 ft. S. of SE. corner of barn, on top of S. end of concrete retaining wall, 5 ft. high, extending S. from SE. corner of barn; chiseled square	676. 89
Martinsburg, at E. side of, on S. side of street, 45 ft. W. of NW. corner of Christian Church, in NE. corner of yard of Baptist Church, 150 ft. N. and 25 ft. E. from NE. corner of church, in root on N. side of 30-in. maple tree; copper nail and washer	710. 69

	Feet
Martinsburg, at center of village, in NW. angle of junction of T-rd. N., at SE. corner of store of C. R. Galloway, on top of NE. corner of concrete platform; chiseled square-----	719.91
Martinsburg, 0.4 mi. W. of, near N $\frac{1}{4}$ cor. sec. 27, T. 6 S., R. 4 W., 75 ft. W. of junction of T-rd. N., on S. side of rd., at gate in front of dwelling of W. M. Brummell, at center of N. end of concrete walk leading to front entrance; chiseled square-----	720.86
Martinsburg, 1.1 mi. W. of, 0.25 mi. W. of NE. cor. sec. 28, T. 6 S., R. 4 W., on S. side of rd., at NE. corner of dwelling of Frank Gifford, on NW. end of concrete step of front porch; chiseled square-----	699.49
Martinsburg, 1.5 mi. W. of, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 21, T. 6 S., R. 4 W., on N. end of W. concrete abutment of bridge over creek; chiseled square-----	579.65
Martinsburg, 2.3 mi. W. of, in SW. part of SE $\frac{1}{4}$ sec. 20, T. 6 S., R. 4 W., 25 ft. N. and 70 ft. W. from junction of rd. N., 2.5 ft. SW. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 64 W 1923 A 30"-----	584.933
Reference mark, 120 ft. E. of tablet, 40 ft. N. and 20 ft. E. from rd. junction, in root on W. side of large forked locust tree; copper nail and washer-----	581.45
Martinsburg, 3.0 mi. W. of, near NE. cor. sec. 30, T. 6 S., R. 4 W., in SW. angle of junction of rd. S., in NE. corner of yard of dwelling, in root on N. side of 10-in. maple tree; copper nail and washer (recovered in 1926)-----	714.29
Martinsburg, 3.8 mi. W. of, 0.3 mi. E. of SW. cor. sec. 19, T. 6 S., R. 4 W., 125 ft. N. of right-angle turn N. in rd., on W. side of rd., at fence line, in root on E. side of 48-in. oak tree; copper nail and washer-----	732.12
Martinsburg, 3.8 mi. W. thence 0.7 mi. NW. from, in SW. part of NW $\frac{1}{4}$ sec. 19, T. 6 S., R. 4 W., 375 ft. N. of angle in rd. to N., on E. side of rd., 10 ft. N. and 30 ft. W. from SW. corner of dwelling of Fred Shaw, in root on W. side of 24-in. maple tree; copper nail and washer-----	739.77
Martinsburg, 3.8 mi. W. thence 1.6 mi. NW. of, 3.2 mi. NE. of Atlas, 0.8 mi. S. of Sumner Hill, 0.25 mi. W. of NE. cor. sec. 24, T. 6 S., R. 5 W., 50 ft. S. and 25 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "31 A 1924"-----	766.880
Reference mark, 260 ft. N. of tablet, 210 ft. N. of rd. junction, on E. side of rd., at SW. corner of front yard of farmhouse, in small root on S. side of 30-in. elm tree; copper nail and washer-----	759.42
Atlas, 2.4 mi. NE. of, 0.25 mi. NW. of center of sec. 24, T. 6 S., R. 5 W., on NW. side of rd., 75 ft. E. of farmhouse of Mrs. Dustin, 17 ft. E. of SE. corner of front yard, in root on S. side of 30-in. maple tree; copper nail and washer-----	738.22
Atlas, 1.6 mi. NE. of, 0.2 mi. SE. of center of sec. 23, T. 6 S., R. 5 W., 400 ft. NE. of summit of hill, on SE. side of rd., at farmhouse owned by E. S. Hooper, 30 ft. N. and 10 ft. W. from front door, 14 ft. E. of front gate, in yard, in root on N. side of 12-in. maple tree; copper nail and washer-----	730.02
Atlas, 0.9 mi. NE. of, near NW. cor. sec. 26, T. 6 S., R. 5 W., 5 ft. S. and 35 ft. E. from SE. corner of dwelling, on N. bank of creek, in root on NE. side of 14-in. walnut tree; copper nail and washer-----	576.96

Atlas, in NW. corner of yard of Christian Church, 145 ft. SE. thence 25 ft. N. from crossroads, 12 ft. SW. of W. corner of church, in concrete post; standard tablet stamped "Prim Trav Sta No 65 W 1923 A 32"	Feet 488. 100
Reference mark, 120 ft. NW. of crossroads, on E. side of street, in front of store of Beatley and Nicholas, on top of W. corner of concrete platform; chiseled square	489. 87
Atlas, 0.5 mi. NW. of, near NE. cor. sec. 28, T. 6 S., R. 5 W., 390 ft. SE. of dwelling of E. L. Roosa, on NE. side of rd., on S. side of gate to barn lot, in root on S. side of 30-in. elm tree; copper nail and washer	484. 15
Atlas, 1.0 mi. NW. of, 0.25 mi. S. of center of sec. 21, T. 6 S., R. 5 W., 180 ft. NW. of junction of rd. NE., at concrete bridge over Ambrosia Creek, on top of NE. parapet of NW. abutment; chiseled square	487. 82
Atlas, 1.8 mi. NW. of, 1.0 mi. SE. of Rockport, near center of NE $\frac{1}{4}$ sec. 20, T. 6 S., R. 5 W., 200 ft. NW. of junction of rd. NE. and bridge over Jimtown Branch, on NE. side of rd., 30 ft. NW. of S. corner of yard at dwelling of Martha Petty, in yard, in root on NW. side of 30-in. locust tree; copper nail and washer	494. 45
[Jogs into Barry quadrangle, line 7]	
El Dara, 3.2 mi. S. of, 1.5 mi. NW. thence 2.5 mi. NE. from Rockport, near NE. cor. sec. 5, T. 6 S., R. 5 W., 40 ft. S. of junction of township-line rd. E., on W. side of rd., on S. bank of creek, in root on SE. side of 10-in. elm tree; copper nail and washer	653. 68
El Dara, 2.5 mi. S. of, near quarter corner between secs. 32 and 33, T. 5 S., R. 5 W., 25 ft. S. of junction of rd. E., 15 ft. E. of fence corner, in field, in concrete post; standard tablet stamped "Prim Trav Sta No 67 W 1923 A 35"	655. 434
Reference mark, 45 ft. E. of tablet, on S. side of E.-W. rd., in field, in root on W. side of 14-in. elm tree; copper nail and washer	655. 82
El Dara, 1.9 mi. S. of, 0.1 mi. N. of SW. cor. sec. 28, T. 5 S., R. 5 W., 100 ft. N. of ford across Crozier Creek, on E. side of rd., at junction of second class rd. W., in root on E. side of 36-in. oak tree; copper nail and washer	619. 15
El Dara, 1.0 mi. S. of, near SW. cor. sec. 21, T. 5 S., R. 5 W., 40 ft. N. and 60 ft. E. from crossroads, in field, in root on S. side of 36-in. elm tree; copper nail and washer	678. 38
5. From point 0.5 mile south and 0.1 mile west from Greenfield School along roads west and south to road junction 2.9 miles east of Pittsfield, thence northeast 0.1 mile (by I. F. Hazelwood in 1924)	
[A jog from Griggsville quadrangle, line 7]	
Pittsfield, 2.9 mi. E. thence 2.0 mi. N. from, 0.5 mi. S. and 0.2 mi. W. from Greenfield School, 50 ft. S. and 3 ft. E. from center of sec. 9, T. 5 S., R. 3 W., in root on NE. side of twin 8-in. elm trees; copper nail and washer	613. 35
Pittsfield, 2.9 mi. E. thence 1.0 mi. N. from, 14 ft. S. and 32 ft. W. from stone marking quarter corner at center of sec. 16, T. 5 S., R. 3 W., in root on W. side of 19-in. elm tree; copper nail and washer	654. 86

[Continued in Griggsville quadrangle, line 7]

6. From road junction 2.9 miles east of Pittsfield generally south along roads to road junction 5.4 miles east of Martinsburg (by I. F. Hazelwood in 1924)

Pittsfield, 2.4 mi. E. of, 0.27 mi. N. of SE. cor. sec. 20, T. 5 S., R. 3 W., in SW. angle of junction of rd. S., on top of concrete culvert; chiseled square-----	Feet 630.39
Pittsfield, 0.6 mi. S. and 2.3 mi. E. from, near quarter corner between secs. 28 and 29, T. 5 S., R. 3 W., 35 ft. S. of junction of T-rd. N., in root on W. side of 24-in. Osage-orange tree; copper nail and washer-----	707.61
Pittsfield, 0.6 mi. S. and 2.8 mi. E. from, near center of sec. 28, T. 5 S., R. 3 W., 15 ft. S. and 55 ft. E. from junction of T-rd. S., on top of S. end of concrete culvert; chiseled square-----	685.65
Pittsfield, 1.7 mi. S. and 2.8 mi. E. from, near center of sec. 33, T. 5 S., R. 3 W., 40 ft. N. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 61 W 1923 H 9 1924"-----	705.500
Reference mark, 25 ft. S. and 46 ft. E. from tablet, on top of large stone culvert; chiseled square-----	701.41
T. 5 S., R. 3 W., near S $\frac{1}{4}$ cor. sec. 33, at township line, on W. side of N-S. rd., 40 ft. N. of jog, on top of head wall of concrete culvert; chiseled square-----	691.32
T. 6 S., R. 3 W., 0.1 mi. S. of center of sec. 4, on top of W. head wall of concrete culvert; chiseled square-----	653.45
T. 6 S., R. 3 W., near quarter corner between secs. 4 and 9, 15 ft. N. and 9 ft. W. from crossroads, on top of W. head wall of concrete culvert; chiseled square-----	661.66
T. 6 S., R. 3 W., near S $\frac{1}{4}$ cor. sec. 9, 20 ft. N. and 30 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 62 W 1923 H 10 1924"-----	611.870
Reference mark, 145 ft. N. and 38 ft. W. from tablet, on top of W. head wall of concrete culvert; chiseled square-----	598.60
T. 6 S., R. 3 W., 0.25 mi. N. of center of sec. 16, 40 ft. S. and 20 ft. W. from right-angle turn in rd. to W., in front of house, in root on N. side of 40-in. hickory tree; copper nail and washer-----	634.22
T. 6 S., R. 3 W., near quarter corner between secs. 16 and 17, 200 ft. S. of right-angle turn in rd. to S., on E. end of concrete culvert; chiseled square-----	576.23
T. 6 S., R. 3 W., near N. cor. secs. 20 and 21, 15 ft. S. of crossroads, at culvert, on top of W. end of 20-in. cast-iron drain pipe; chiseled square-----	633.73
T. 6 S., R. 3 W., near E $\frac{1}{4}$ cor. sec. 20, in front of Honey Creek School, on W. side of rd., on top of concrete curb around top of well; chiseled square-----	627.10
7. From Wabash Railway at road crossing 1.8 miles east of Maysville Station north and east along roads to point 2.6 miles north and 1.3 miles west from Griggsville (by I. F. Hazelwood in 1924; first 3.1 miles leveled by C. E. Walker in 1927)	
Maysville Sta., 1.8 mi. E. thence 0.5 mi. N. from, 2.0 mi. E. of Maysville, near NE. cor. sec. 20, T. 4 S., R. 3 W., 135 ft. W. of crossroads, at SE. corner of bridge, on top of abutment; chiseled square-----	637.16

Maysville, 2.5 mi. E. of, near N $\frac{1}{4}$ cor. sec. 21, T. 4 S., R. 3 W., 60 ft. S. and 80 ft. W. from junction of T-rd N., in root on N. side of 36-in. maple tree; copper nail and washer-----	Feet 664. 68
Maysville, 2.5 mi. E. thence 1.0 mi. N. from, near N $\frac{1}{4}$ cor. sec. 16, T. 4 S., R. 3 W., on W. side of rd., in root on E. side of 20-in. Osage-orange tree; copper nail and washer-----	623. 20
Maysville, 1.7 mi. N. and 2.2 mi. E. from, near center of NW $\frac{1}{4}$ sec. 9, T. 4 S., R. 3 W., 10 ft. S. and 25 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 58 W 1923 H 3 1924"-----	624. 218
Reference mark, 205 ft. N. of tablet, on W. wing wall of concrete culvert; chiseled square-----	611. 55
Maysville, 2.5 mi. N. and 2.5 mi. E. from, 2.6 mi. N. and 1.4 mi. W. from Griggsville, near center of sec. 4, T. 4 S., R. 3 W., 12 ft. S. and 55 ft. E. from right-angle turn N. in rd., in root on NE. side of 38-in. black-oak tree; copper nail and washer-----	591. 18
[Continued in Griggsville quadrangle, line 6]	
8. From point 1.5 miles north and 0.7 mile east from Baylis along roads alternately south and west to Baylis (by G. F. Williams in 1925; leveled twice)	
[Continued from Mount Sterling quadrangle, line 6]	
Baylis, 0.9 mi. N. thence 0.7 mi. E. from, 4.5 mi. S. and 0.5 mi. W. from Fishhook, near NW. cor. sec. 8, T. 4 S., R. 4 W., 50 ft. S. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 55 W 1923 GW 12 1925"-----	791. 658
Reference mark, in NE. angle of crossroads, at fence corner, in root on N. side of 8-in. Osage-orange tree; copper nail and washer-----	791. 60
Baylis, 0.9 mi. N. of, near S $\frac{1}{4}$ cor. sec. 6, T. 4 S., R. 4 W., on N. side of rd., at junction of T-rd. S., on top of N. head wall of concrete culvert; chiseled square-----	840. 31
9. From point 2.3 miles south of Perry southwest along road to road junction 1.7 miles north and 2.2 miles east from Maysville (by G. F. Williams in 1925)	
[Continued from Mount Sterling quadrangle, line 5]	
Maysville, 2.9 mi. N. and 2.5 mi. E. from, 2.4 mi. S. of Perry, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 4, T. 4 S., R. 3 W., at iron bridge over South Fork McGee Creek, on W. end of N. limestone abutment; chiseled square-----	501. 89
10. From point 1 mile south and 2.6 miles west from Martinsburg along road northwest and north 1.3 miles (by J. M. Lawson in 1926)	
[Continued from Nebo quadrangle, line 4]	
Martinsburg, 1.0 mi. S. and 2.6 mi. W. from, 3.3 mi. N. of Stockland School, 0.25 mi. SE. of NW. cor. sec. 32, T. 6 S., R. 4 W., 150 ft. NW. of rd. junction, 30 ft. SW. of rd., on N. side of creek, in root on W. side of 24-in. sycamore tree; copper nail and washer-----	560. 46
Martinsburg, 3.0 mi. W. thence 0.7 mi. S. from, at Black Oak School, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 30, T. 6 S., R. 4 W., 300 ft. N. of summit of hill, on W. side of rd., 65 ft. N. of N. side of schoolhouse, in root on E. side of tree, southeasternmost of three oak trees standing 10 ft. apart; copper nail and washer-----	715. 52

QUINCY QUADRANGLE

[Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $91^{\circ}15' - 91^{\circ}30'$]

ADAMS AND PIKE COUNTIES

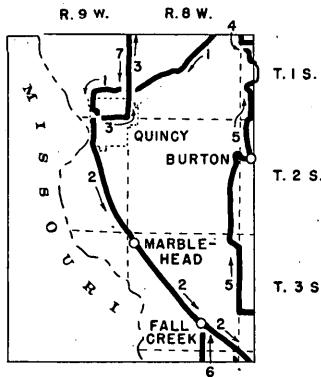


FIGURE 143.—Lines of leveling in Quincy quadrangle.

1. From point 1.5 miles southwest of Fowler southwest along Chicago, Burlington & Quincy Railroad to Quincy (by R. G. Clinite in 1914)

[Continued from Mendon quadrangle, line 1]

Fowler, 2.5 mi. SW. of, 1.2 mi. NE. of Ewbanks, in NW. angle of crossing of N. S. rd., 80 ft. N. of track, 2 ft. E. of fence; standard iron post with bronze cap stamped "722"	720. 944
Ewbanks, 150 ft. NE. of sta., on SE. side of SW abutment of viaduct, on stone bridge seat; chiseled square	725. 31
Ewbanks, 2.6 mi. SW. of, 2.4 mi. NE. of Soldiers Home, 500 ft. SW. of rd. forks and underpass, 60 ft. S. of track, 2 ft. E. of fence on W. side of rd. bearing S.; standard iron post with bronze cap stamped "660" (recovered by U. S. C. & G. S. in 1933)	659. 277
Soldiers Home, 400 ft. E. of sta., 2.0 mi. NE. of R. R. sta. at Quincy, at underpass of U. S. Highway 24, on top course of stone of W. abutment, 5 ft. S. of track; chiseled square (recovered by U. S. C. & G. S. in 1933)	571. 994
Quincy, 800 ft. SE. of E. approach of Mississippi River toll bridge, at stone viaduct of Cannon Ball Trail under R. R. tracks, on top course of stone on E. side of S. abutment; chiseled square	506. 14
Quincy, at foot of Main Street, on W. wall of waterworks building, marked by horizontal grooves cut in stone; high water mark 1851 (recovered by U. S. C. & G. S. in 1933) — high water mark 1908	480. 357 478. 41
Quincy, at SW. corner of Adams County courthouse, in base of large rectangular column at corner of stone coping supporting iron guard rail, set vertically in S. face of stone; aluminum tablet stamped "601" (recovered by U. S. C. & G. S. in 1933)	601. 098
Quincy, at NE. corner of intersection of Third and Hampshire Streets, on W. side of S. entrance to city hall, in water table; copper bolt (City of Quincy B. M.; recovered by U. S. C. & G. S. in 1933)	588. 611

Quincy, at Tellico Flour Mill, on W. side of R. R. track, between Payson and Ohio Streets, on W. side of building facing Mississippi River, on N. end of stone doorstep; chiseled circle (U. S. C. E. B. M.; recovered by U. S. C. & G. S. in 1933)	Feet 477. 706
Quincy, on W. side of Tellico Flour Mill, on W. face of stone doorstep, marked by horizontal groove cut in stone; (recovered by U. S. C. & G. S. in 1933)	477. 552
high water mark 1888	477. 552
Quincy, on W. side of Tellico Flour Mill, near SW. corner, on W. wall, marked by horizontal groove cut in brick; (recovered by U. S. C. & G. S. in 1933)	480. 468
high water mark 1851	480. 468
2. From Quincy southeast along Chicago, Burlington & Quincy Railroad to point 0.4 mile southeast of Seehorn (by R. G. Clinite in 1914)	
Quincy, 1.5 mi. S. of sta., at NW. corner of grounds of Quincy House of Correction, adjoining Woodland Cemetery on S., 16 ft. E. of rd. along foot of bluff; Mississippi River Comm. B. M. 99/2	
cap on iron pipe	488. 403
bolt in tile	484. 403
Quincy, 5.7 mi. SE. of, 1.4 mi. NW. of Marblehead, 600 ft. W. of cross-roads, 280 ft. SE. of milepost 268, 80 ft. E. of rd. crossing, on N. side of rd.; standard iron post with bronze cap stamped "478" and "Prim Trav Sta No 28 1919" ³²	478. 076
Marblehead, 700 ft. S. of sta., at R. R. bridge over Mill Creek, on NE. side of NW. abutment, on concrete bridge seat; chiseled square	485. 70
Marblehead, 2.3 mi. SE. of, 3.4 mi. NW. of Fall Creek, 58 ft. E. of track, 45 ft. S. of second-class rd., on N. side of Harkness Creek, 5 ft. N. and 10 ft. E. from corner of fences along right-of-way and field; standard iron post with bronze cap stamped "491" ³³	491. 411
Fall Creek, 400 ft. NW. of sta., 80 ft. SE. of rd. crossing, 38 ft. NE. of track, 12 ft. NE. of rd., 1.5 ft. SW. of fence; standard iron post with bronze cap stamped "474" (recovered by U. S. C. & G. S. in 1935)	474. 363
Fall Creek, 1.0 mi. SE. of, at Mississippi River Light & Power Co. steel tower 336, in NE. corner of concrete base; top of bolt	464. 77
Seehorn, 0.22 mi. NE. of rd. crossing, 2.8 mi. SE. of Fall Creek, 30 ft. N. and 110 ft. W. from rd. junction, just outside fence, at SW. corner of churchyard; standard iron post with bronze cap stamped "482" and Prim Trav Sta No 35 1919" (recovered in 1926)	482. 063
Reference mark, 55 ft. NE. of iron post, on SW. side of concrete walk to church, in root on SE. side of 30-in. maple tree; copper nail and washer (established in 1926)	483. 28

[Continued in Barry quadrangle, line 1]³⁴

³² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 81 1935," elevation 474.448 ft.

³³ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "D 81 1935," elevation 480.973 ft.

³⁴ This line crosses the northeast corner of Hannibal quadrangle but no bench marks were established on that portion of the line.

3. From Quincy north along range-line road to point near west quarter corner sec. 7, T. 1 S., R. 8 W. (by W. A. Shumate in 1921)

Quincy, 1.1 mi. E. of Adams County courthouse, at SE. corner of intersection of Eighteenth and Vermont Streets, in root of 30-in. maple tree; copper nail and washer

Feet
615.35

Quincy, 1.5 mi. E. thence 0.5 mi. N. from, at NW. corner of intersection of Twenty-fourth and Lind Streets, on concrete sidewalk; chiseled square

670.37

Quincy, 1.5 mi. E. thence 2.6 mi. N. from, near E $\frac{1}{4}$ cor. sec. 24, T. 1 S., R. 9 W., in NW. angle of junction of T-rd. W., in root of 48-in. maple tree; copper nail and washer³⁵

642.84

[Continued in Mendon quadrangle, line 2]

4. From point 0.5 mile south of Fowler south 0.5 mile along range-line road to crossroads, thence east 0.7 mile to point 5.5 miles west of Columbus (by E. O. Brooks in 1921)

[Connects with line 2 in Mendon quadrangle]

Fowler, 1.0 mi. S. of, 6.2 mi. W. of Columbus, near NE. cor. sec. 13, T. 1 S., R. 8 W., in SW. angle of crossroads, on N. end of W. retaining wall of culvert; chiseled square

691.04

[Continued in Liberty quadrangle, line 3]

5. From point 2 miles south and 0.4 mile west from Payson along roads west to range-line road, thence generally north by way of Burton to crossroads 1 mile south of Fowler (by W. A. Shumate in 1921)

[Continued from Liberty quadrangle, line 1]

Payson, 2.0 mi. S. and 1.0 mi. W. from, 0.5 mi. N. and 2.0 mi. E. from Fall Creek, near SW. cor. sec. 19, T. 3 S., R. 7 W., in NE. angle of junction of T-rd. E., in root on SW. side of 40-in. elm tree; copper nail and washer

654.76

Payson, 1.0 mi. S. and 1.0 mi. W. from, near SE. cor. sec. 13, T. 3 S., R. 8 W., on W. side of rd., at summit of hill, in root on E. side of 6-in. mulberry tree; copper nail and washer

695.83

Payson, 0.5 mi. S. and 1.0 mi. W. from, near SE. cor. sec. 13, T. 3 S., R. 8 W., at offset crossroads, 70 ft. N. of junction of T-rd. W., on W. side of range-line rd., in line with rd. E., 2 ft. from fence; standard iron post with bronze cap stamped "1921 665"

664.606

Payson, 1.0 mi. W. of, 600 ft. N. of SW. cor. sec. 7, T. 3 S., R. 7 W., in SE. angle of junction of T-rd. E., on E. end of concrete culvert; chiseled square

688.96

Payson, 1.5 mi. NW. of, 0.25 mi. N. of SE. cor. sec. 1, T. 3 S., R. 8 W., in SW. angle of rd. junction, on large flat rock partly embedded in ground; chiseled square

717.84

Payson, 1.8 mi. NW. of, 0.25 mi. E. of center of sec. 1, T. 3 S., R. 8 W., in NW. angle of crossroads, on S. end of concrete culvert; chiseled square

710.24

Payson, 2.5 mi. NW. of, 4.0 mi. S. and 1.3 mi. W. from Burton, near S $\frac{1}{4}$ cor. sec. 36, T. 2 S., R. 8 W., at offset crossroads, 67 ft. N. of junction of T-rd. N., on E. side of rd., 10 ft. S. of large maple tree; standard iron post with bronze cap stamped "1921 698"

698.160

Burton, 2.2 mi. S. and 1.3 mi. W. from, 0.17 mi. S. of N $\frac{1}{4}$ cor. sec. 25, T. 2 S., R. 8 W., in E. end of N. abutment of bridge; aluminum tablet stamped "1921 588"

587.906

³⁵ In 1935 this bench mark was reported destroyed.

	Feet
South Fork of Mill Creek, near S $\frac{1}{4}$ cor. sec. 24, T. 2 S., R. 8 W.; surface of water Oct. 14, 1921	579. 8
Burton, 1.1 mi. S. and 1.3 mi. W. from, near N $\frac{1}{4}$ cor. sec. 24, T. 2 S., R. 8 W., in SE. angle of crossroads, on large boulder; highest point	689. 71
Burton, 0.5 mi. S. and 1.0 mi. W. from, about 900 ft. NE. of center of sec. 13, T. 2 S., R. 8 W., on S. side of NE-SW. meandering rd., 50 ft. SW. of crossing of small stream, at private entrance to farmhouse, on W. end of concrete culvert; chiseled square	622. 79
Burton, at W. edge of town; 0.15 mi. E. of N $\frac{1}{4}$ cor. sec. 18, T. 2 S., R. 7 W., in SW. angle of crossroads, in pasture, 7 ft. S. and 1.6 ft. W. from fence corner; standard iron post with bronze cap stamped "1921 643"	642. 744
Burton, 2.0 mi. N. of, 0.15 mi. E. of S $\frac{1}{4}$ cor. sec. 21, T. 1 S., R. 7 W., in NW. angle of junction of T-rd. N., 10 ft. N. and 2 ft. E. from fence corner, 5 ft. SW. of large tree used as gatepost; standard iron post with bronze cap stamped "1921 688"	687. 34
Burton, 3.9 mi. N. and 0.5 mi. W. from, in NW $\frac{1}{4}$ sec. 30, T. 1 S., R. 7 W., 30 ft. NW. of rd. junction, on concrete steps of farmhouse; chiseled square	720. 87

[Jogs into Liberty quadrangle, line 2]

Burton, 6.0 mi. N. and 0.6 mi. W. from, 1.0 mi. S. thence 0.2 mi. E. from Fowler, 0.2 mi. E. of NW. cor. sec. 18, T. 1 S., R. 7 W., 220 ft. S. of rd. junction, at W. end of culvert, on retaining wall; chiseled square	652. 09
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6. From point near quarter corner between secs. 2 and 3, T. 4 S., R. 8 W., north along road 2 miles to Fall Creek (by S. R. Archer in 1926)

[Connects with line 2 in Hannibal quadrangle]

Fall Creek, 1.5 mi. S. of, near SE. cor. sec. 35, T. 3 S., R. 8 W., 100 ft E. of crossroads, on N. side of Adams-Pike county-line rd., in root on S. side of 42-in. oak tree; copper nail and washer	459. 98
Fall Creek, 0.7 mi. S. of, 0.16 mi. S. of NE. cor. sec. 34, T. 2 S., R. 8 W., on W. side of rd., at fence line, in root of 12-in. tree, northernmost of three locust trees; copper nail and washer	462. 32

7. From point near west quarter corner sec. 7, T. 1 S., R. 8 W., south along range-line highway to crossing of Chicago, Burlington & Quincy Railroad (by S. R. Archer in 1936)

[Connects with line 7 in Mendon quadrangle]

Quincy, 4.0 mi. N. and 1.5 mi. E. from Adams County courthouse, 1.0 mi. S. and 5.8 mi. W. from Fowler, near SE. cor. sec. 12, T. 1 S., R. 9 W., 43 ft. N. and 25 ft. W. from crossroads, 10 ft. N. of SE. corner of triangular park between highways, 4 ft. S. of power-line pole; standard iron post with bronze cap stamped "633"	633. 407
Quincy, 3.0 mi. N. and 1.5 mi. E. from, near SW. cor. sec. 18, T. 1 S., R. 8 W., in NE. angle of junction of T-rd. E., at highway culvert, on S. end of E. head wall; chiseled square	602. 20
Quincy, 2.5 mi. N. and 1.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 24, T. 1 S., R. 9 W., 160 ft. S. of junction of T-rd. W., at highway culvert, on S. end of W. head wall; chiseled square	636. 44

Quincy, 2.0 mi. N. and 1.5 mi. E. from, near SW. cor. sec. 19, T. 1 S., R. 8 W., at offset crossroads, 30 ft. N. of junction of rd. W., at highway culvert, on N. end of E. head wall; chiseled square-----	Feet 613. 56
Quincy, 1.5 mi. N. and 1.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 25, T. 1 S., R. 9 W., 465 ft. N. of junction of T-rd. E., at concrete highway bridge over Cedar Creek, on W. parapet of S. abutment; chiseled square-----	584. 79
U. S. C. & G. S. standard disk stamped "W 15 1933"-----	607. 787

RAYMOND QUADRANGLE
 [Latitude 39°15'-39°30'; longitude 89°30'-89°45']
CHRISTIAN, MACOUPIN, AND MONTGOMERY COUNTIES

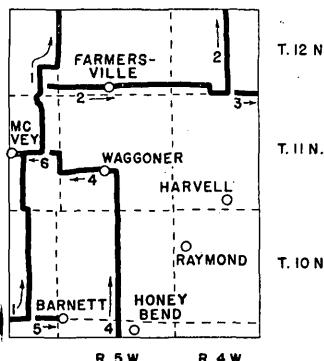


FIGURE 144.—Lines of leveling in Raymond quadrangle.

1. From point 3 miles west of Barnett along roads alternately east and north to point 1.6 miles south of corner of Macoupin, Montgomery, and Sangamon Counties (by S. R. Archer in 1922)

[Continued from Carlinville quadrangle, line 1]

Barnett, 2.3 mi. W. of, near SW. cor. sec. 35, T. 10 N., R. 6 W., at NE. corner of concrete bridge, on parapet; chiseled square (recovered in 1923)

Feet
624.77

Barnett, 1.9 mi. W. of, near S $\frac{1}{4}$ cor. sec. 35, T. 10 N., R. 6 W., 25 ft. N. and 20 ft. W. from junction of T-rd. N., 5 ft. N. of fence corner, in concrete post; aluminum tablet stamped "2 A 1922" (recovered in 1936)

645.821

Reference mark, 275 ft. N. of rd. junction, on E. side of rd., at fence line, in root on SW. side of 12-in. cherry tree; copper nail and washer (recovered in 1923)

645.54

Barnett, 1.9 mi. W. thence 1.0 mi. N. from, 0.3 mi. S. of Shaw Point School, near S $\frac{1}{4}$ cor. sec. 26, T. 10 N., R. 6 W., 85 ft. E. of crossroads, on N. side of rd., in root on N. side of 12-in. oak tree; copper nail and washer

641.54

Barnett, 1.9 mi. W. thence 2.0 mi. N. from, near S $\frac{1}{4}$ cor. sec. 23, T. 10 N., R. 6 W., 60 ft. N. of crossroads, on W. side of rd. N., in root on SW. side of 8-in. cherry tree; copper nail and washer

636.72

Barnett, 1.9 mi. W. thence 3.0 mi. N. from, 0.4 mi. W. thence 1.5 mi. S. from Atwater, near S $\frac{1}{4}$ cor. sec. 14, T. 10 N., R. 6 W., 40 ft. N. and 20 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1922 3 A"

623.140

Reference mark, in SE. angle of crossroads, in root on W. side of 8-in. hedge tree; copper nail and washer

619.31

Atwater, 0.4 mi. W. thence 0.5 mi. S. from, near N $\frac{1}{4}$ cor. sec. 14, T. 10 N., R. 6 W., in SW. angle of crossroads, 20 ft. W. of fence corner, in root on S. side of 6-in. walnut tree; copper nail and washer	635.66
Atwater, 0.4 mi. W. of, near center of sec. 11, T. 10 N., R. 6 W., 120 ft. W. of crossroads, on S. side of rd., in root on N. side of double locust tree; copper nail and washer	634.58
Atwater, 0.4 mi. W. thence 1.0 mi. N. from, near center of sec. 2, T. 10 N., R. 6 W., 150 ft. S. of crossing of Chicago, Burlington & Quincy R. R. and rd. NE., 35 ft. S. of junction of rd. NW., on E. side of rd., in root on SW. side of 24-in. oak tree; copper nail and washer	620.35
Atwater, 0.4 mi. W. thence 1.7 mi. NW. from, 0.6 mi. E. thence 2.5 mi. S. from McVey, near E $\frac{1}{4}$ cor. sec. 34, T. 11 N., R. 6 W., 25 ft. S. and 20 ft. W. from junction of T-rd. E., in concrete post; aluminum tablet stamped "Prim Trav Sta No 2 S 1922 4 A" ²⁸	608.082
Reference mark, 35 ft. S. and 45 ft. E. from rd. junction, in root on N. side of 8-in. hickory tree; copper nail and washer	608.09
McVey, 0.6 mi. E. thence 1.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 27, T. 11 N., R. 6 W., in NW. angle of junction of T-rd. W., in root on NW. side of 36-in. elm tree; copper nail and washer	620.96
McVey, 0.6 mi. E. thence 1.0 mi. S. from, near SW. cor. sec. 23, T. 11 N., R. 6 W., near NE. corner of junction of T-rd. E., on top of W. end of N. head wall of concrete culvert under rd. E.; chiseled square	634.58
McVey, 0.7 mi. E. of, about 670 ft. E. of NW. cor. sec. 23, T. 11 N., R. 6 W., 700 ft. E. of crossroads, 130 ft. W. of house on S. side of rd., 35 ft. S. of rd., at NW. corner of grove of maple trees, in root on NE. side of 12-in. tree; copper nail and washer	644.90
McVey, 1.5 mi. E. of, 3.6 mi. W. thence 4.0 mi. S. from Farmersville, near SW. cor. sec. 13, T. 11 N., R. 6 W., opposite New Hope School, 25 ft. N. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 3 S 1922 5 A" (recovered in 1936)	638.040
Reference mark, in NW. angle of crossroads, on top of W. corner at S. end of concrete walk to schoolhouse; chiseled square (recovered in 1923)	639.04
Farmersville, 3.6 mi. W. thence 3.0 mi. S. from, near NE. cor. sec. 14, T. 11 N., R. 6 W., 50 ft. S. and 20 ft. W. from crossroads, in fence line, in root on E. side of 12-in. oak tree; copper nail and washer	633.72
Farmersville, 3.6 mi. W. thence 2.0 mi. S. from, near SE. cor. sec. 2, T. 11 N., R. 6 W., in NW. angle of crossroads, in SE. corner of churchyard, in root on E. side of 30-in. maple tree; copper nail and washer	655.56
Farmersville, 3.6 mi. W. thence 1.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 2, T. 11 N., R. 6 W., on N. side of rd. at right-angle bend W., 5 ft. W. of section line, in root on W. side of 42-in. elm tree; copper nail and washer	658.24.
Farmersville, 3.6 mi. W. thence 0.5 mi. S. from, near SW. cor. sec. 36, T. 12 N., R. 6 W., 20 ft. N. and 30 ft. E. from junction of T-rd. N., in concrete post; aluminum tablet stamped "Prim Trav Sta No 4 S 1922 17 A"	661.080

²⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 96 1935," elevation 633.965 ft.

	Feet
Reference mark, in NE. angle of rd. junction, in fence corner, in root on E. side of 5-in. elm tree; copper nail and washer-----	660.37
Farmersville, 3.6 mi. W. of, near E $\frac{1}{4}$ cor. sec. 35, T. 12 N., R. 6 W., 110 ft. S. of crossroads, on top of N. end of W. wing wall of N. concrete abutment of bridge over creek; chiseled square-----	652.51
Farmersville, 3.6 mi. W. thence 1.0 mi. N. from, near W $\frac{1}{4}$ cor. sec. 25, T. 12 N., R. 6 W., 30 ft. S. and 30 ft. E. from crossroads, at NW. corner of small walnut grove, in root on S. side of 12-in. walnut tree; copper nail and washer-----	675.86
Farmersville, 2.6 mi. W. and 1.0 mi. N. from, near E $\frac{1}{4}$ cor. sec. 25, T. 12 N., R. 6 W., 100 ft. N. of junction of T-rd. N., along Macoupin-Montgomery county line, on W. side of rd., in fence line, in root on NW. side of quadruple-forked cherry tree; copper nail and washer-----	665.95
Farmersville, 2.6 mi. W. and 1.5 mi. N. from, near NW. cor. sec. 30, T. 12 N., R. 5 W., 5 ft. S. and 20 ft. E. from junction of private rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 5 W 1922 16 A"-----	667.975
Reference mark, 70 ft. W. of rd. junction, on S. side of private rd., in fence line, in root on S. side of 24-in. elm tree; copper nail and washer-----	668.02
Farmersville, 2.6 mi. W. and 2.5 mi. N. from, near W. cor. secs. 18 and 19, T. 12 N., R. 5 W., on E. side of rd., in fence corner, in root on NE. side of double hedge tree; copper nail and washer-----	677.34
Farmersville, 2.6 mi. W. and 3.5 mi. N. from, 2.0 mi. S. of corner of Macoupin, Montgomery, and Sangamon counties, near NW. cor. sec. 18, T. 12 N., R. 5 W., in SE. corner of crossroads, on top of E. head wall of concrete culvert; chiseled square-----	655.00

[Continued in Divernon quadrangle, line 1]

2. From crossroads 3.6 miles west of Farmersville along roads east to Christian-Montgomery county line, thence north to point 1.6 miles south of corner of Christian, Montgomery, and Sangamon counties (by S. R. Archer in 1922)	
Farmersville, 2.6 mi. W. of, near E $\frac{1}{4}$ cor. sec. 36, T. 12 N., R. 6 W., at crossing of Macoupin-Montgomery county line, on N. side of rd., 15 ft. W. of fence corner, on W. side of gate to field, in fence line, in root on N. side of 8-in. hedge tree; copper nail and washer-----	662.68
Farmersville, 1.6 mi. W. of, near E $\frac{1}{4}$ cor. sec. 31, T. 12 N., R. 5 W., in NW. corner of crossroads, on top at right angle in head wall of concrete culvert under rd. W.; chiseled square-----	655.16
Farmersville, 0.6 mi. W. of, near E $\frac{1}{4}$ cor. sec. 32, T. 12 N., R. 5 W., on N. side of rd., in fence line, opposite T-rd. S., 15 ft. W. of fence corner, in root on SE. side of 36-in. maple tree; copper nail and washer-----	645.90
Farmersville, in W. part of, 0.25 mi. W. of center of sec. 33, T. 12 N., R. 5 W., in NW. angle of junction of T-rd. N., on top of E. end of N. head wall of concrete culvert; chiseled square-----	645.32
Farmersville, near center of, at NW. corner of public park, in concrete post; aluminum tablet stamped "18 A 1922"-----	642.551
Farmersville, 0.6 mi. E. of, 0.2 mi. E. of crossroads at quarter corner between secs. 33 and 34, T. 12 N., R. 5 W., on S. side of rd., on W. bank of Macoupin Creek, in root on N. side of 24-in. elm tree; copper nail and washer-----	624.61

	Feet
Farmersville, 1.4 mi. E. of, near W $\frac{1}{4}$ cor. sec. 35, T. 12 N., R. 5 W., in NE. angle of crossroads, in SW. corner of yard of residence, in root on S. side of forked maple tree; copper nail and washer-----	642.20
Farmersville, 2.4 mi. E. of, near W $\frac{1}{4}$ cor. sec. 36, T. 12 N., R. 5 W., in NE. angle of crossroads, in root 3 in. underground on NW. side of 6-in. hedge tree used as corner fence post; copper nail and washer-----	633.54
Farmersville, 3.4 mi. E. of, near E $\frac{1}{4}$ cor. sec. 36, T. 12 N., R. 5 W., in SW. angle of crossroads, 4 ft. W. of fence corner, in concrete post; aluminum tablet stamped "19 A 1922"-----	639.509
Reference mark, in SE. corner of crossroads, on top of S. end of E. head wall of concrete culvert under rd. S.; chiseled square-----	640.16
Farmersville, 4.3 mi. E. of, near E $\frac{1}{4}$ cor. sec. 31, T. 12 N., R. 4 W., in NW. corner of crossroads, on top of N. head wall of concrete culvert; chiseled square-----	648.62
Farmersville, 5.4 mi. E. of, near W $\frac{1}{4}$ cor. sec. 33, T. 12 N., R. 4 W., 245 ft. N. of crossroads, on E. side of rd., at fence line, in root on SW. side of 12-in. elm tree; copper nail and washer-----	644.08
Farmersville, 5.4 mi. E. thence 0.5 mi. S. from, near NW. cor. sec. 4, T. 11 N., R. 4 W., in SE. angle of right-angle turn S. in rd., 25 ft. S. and 70 ft. W. from junction of rd. N., at fence corner, in root on N. side of 24-in. maple tree; copper nail and washer-----	646.62
Farmersville, 6.4 mi. E. thence 0.5 mi. S. from, 5.6 mi. N. of Harvel, 25 ft. N. and 90 ft. W. from SE. cor. sec. 33, T. 12 N., R. 4 W., at Christian-Montgomery county line, in NW. angle of offset crossroads, 30 ft. N. of junction of rd. S., in concrete post; aluminum tablet stamped "Prim Trav Sta No 16 S 1922 20 A" (recovered in 1923)-----	642.292
Reference mark, 300 ft. W. of crossroads, in center of top of S. head wall of concrete culvert under rd. W.; chiseled square-----	642.20
Farmersville, 6.4 mi. E. thence 0.5 mi. N. from, near SE. cor. sec. 28, T. 12 N., R. 4 W., in NW. angle of crossroads, in root on SE. side of 10-in. hedge tree; copper nail and washer-----	640.43
Farmersville, 6.4 mi. E. thence 1.5 mi. N. from, near SE. cor. sec. 21, T. 12 N., R. 4 W., in NW. angle of crossroads, in root on NE. side of 12-in. hedge tree; copper nail and washer-----	636.30
Farmersville, 6.4 mi. E. thence 2.5 mi. N. from, near NW. cor. sec. 22, T. 12 N., R. 4 W., 40 ft. S. and 20 ft. E. from crossroads, 12 ft. S. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 15 S 1922 21 A"-----	633.817
Reference mark, 45 ft. N. and 35 ft. W. from crossroads, in SE. corner of yard of residence, in root on NE. side of 36-in. maple tree; copper nail and washer-----	633.33
Farmersville, 6.4 mi. E. thence 3.5 mi. N. from, 2.2 mi. S. of Zenobia, near SW. cor. sec. 10, T. 12 N., R. 4 W., 75 ft. E. of crossroads, on N. side of rd., in fence line, in root on SW. side of 8-in. hedge tree; copper nail and washer-----	630.22

[Continued in Divernon quadrangle, line 2]

3. From crossroads 5.6 miles north of Harvel east along road 1.8 miles (by E. O. Brooks in 1923)

Harvel, 5.6 mi. N. thence 1.0 mi. E. from, near SE. cor. sec. 34, T. 12 N., R. 4 W., in NW. angle of crossroads, in center of top of N. end of concrete culvert; chiseled square-----	632.57
---	--------

[Continued in Morrisonville quadrangle, line 2]

4. From point 0.9 mile west and 0.4 mile south from Honey Bend along roads north and west by way of Waggoner to crossroads 1.5 miles east of McVey (by E. O. Brooks in 1923)

[Continued from Mount Olive quadrangle, line 7]

Honey Bend, 0.9 mi. W. thence 0.4 mi. N. from, near SW. cor. sec. 34, T. 10 N., R. 5 W., in NE. angle of crossroads, in center of top of E. concrete head wall of culvert; chiseled square-----	Feet 654.76
Honey Bend, 0.9 mi. W. thence 1.5 mi. N. from, near NW. cor. sec. 34, T. 10 N., R. 5 W., in SE. angle of crossroads, in center of top of S. concrete head wall of culvert; chiseled square-----	640.36
Honey Bend, 0.9 mi. W. thence 2.5 mi. N. from, 0.5 mi. E. thence 5.9 mi. S. from Waggoner, near NW. cor. sec. 27, T. 10 N., R. 5 W., 45 ft. S. and 25 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "17 EB 1923"-----	636.130
Reference mark, 35 ft. N. and 8 ft. W. from tablet, in SE. angle of rd. junction, in center of top of concrete head wall of culvert; chiseled square-----	634.39
Waggoner, 0.5 mi. E. thence 4.9 mi. S. from, near NE. cor. sec. 21, T. 10 N., R. 5 W., in SW. angle of junction of T-rd. W., in center of top of concrete head wall of culvert; chiseled square-----	650.64
Waggoner, 0.5 mi. E. thence 3.9 mi. S. from, near Vignos School, near NW. cor. sec. 15, T. 10 N., R. 5 W., 80 ft. S. and 20 ft. E. from crossroads, in root on W. side of 18-in. cottonwood tree; copper nail and washer-----	651.93
Waggoner, 0.5 mi. E. thence 2.9 mi. S. from, near NE. cor. sec. 9, T. 10 N., R. 5 W., 25 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "18 EB 1923"-----	644.330
Reference mark, 40 ft. N. and 40 ft. E. from tablet, in NE. angle of crossroads, in root on SW. side of 36-in. maple tree; copper nail and washer-----	644.88
Waggoner, 0.5 mi. E. thence 2.1 mi. S. from, near NE. cor. sec. 4, T. 10 N., R. 5 W., 240 ft. S. of township line, in center of top of W. concrete head wall of culvert; chiseled square-----	638.03
Waggoner, 0.5 mi. E. thence 1.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 33, T. 11 N., R. 5 W., in SW. angle of junction of T-rd. W., in center of top of concrete head wall of culvert; chiseled square-----	642.88
Waggoner, 0.5 mi. E. thence 0.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 27, T. 11 N., R. 5 W., 165 ft. S. and 15 ft. E. from junction of T-rd. E., in center of top of concrete head wall of culvert; chiseled square-----	646.50
Waggoner, 0.5 mi. E. of, 5 ft. S. and 20 ft. E. from junction of T-rd. W., on E. side of N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 19 S 1922 19 EB 1923" ³⁷ -----	637.672
Reference mark, 22 ft. N. and 10 ft. W. from tablet, in center of top of E. end of concrete culvert; chiseled square-----	638.22
Waggoner, 0.5 mi. W. of, near SE. cor. sec. 20, T. 11 N., R. 5 W., in NW angle of crossroads, in center of top of concrete head wall of culvert; chiseled square-----	639.44
Waggoner, 1.5 mi. W. of, near NE. cor. sec. 30, T. 11 N., R. 5 W., in SW angle of crossroads, opposite East Union School, 3 ft. N. and 3 ft. W. from fence corner, in concrete post; aluminum tablet stamped "Prim Trav Sta No 20 S 1922 20 EB 1923"-----	642.110

³⁷ In 1929 this bench mark was moved 2 ft. north and 23.3 ft. east from this location and reset at an elevation 0.630 ft. lower than that originally determined. The figures given represent the new elevation.

	Feet
Reference mark, 50 ft. N. and 50 ft. W. from tablet, at entrance to schoolhouse, in center of top of S. end of concrete walk; chiseled square	641.30
Waggoner, 2.5 mi. W. of, near NW. cor. sec. 30, T. 11 N., R. 5 W., in SE. angle of crossroads, in root on W. side of 36-in. maple tree; copper nail and washer	622.72
Waggoner, 2.5 mi. W. thence 1.0 mi. N. from, 2.5 mi. E. of McVey, near NW. cor. sec. 19, T. 11 N., R. 5 W., 270 ft. S. of junction of T-rd. W., 8 ft. NE. of NE. corner of steel bridge over Macoupin Creek, on top of N. end of concrete wing wall; chiseled square	602.35
5. From point 1.9 miles west of Barnett east along road to Barnett (by W. C. Elledge in 1936; leveled twice)	
Barnett, 0.9 mi. W. of, near S $\frac{1}{4}$ cor. sec. 36, T. 10 N., R. 6 W., 90 ft. N. of center line of rd., in line with fence line N., in root on S. side of 12-in. hedge stump; copper nail and washer	655.90
U. S. C. & G. S. standard disk stamped "U 96 1935"	657.912
6. From crossroads 1.5 miles east of McVey west along road to McVey (by W. C. Elledge in 1936; leveled twice)	
McVey, 0.5 mi. E. of, near NW. cor. sec. 23, T. 11 N., R. 6 W., 15 ft. S. and 10 ft. E. from crossroads, on E. end of concrete culvert; chiseled square	643.48
U. S. C. & G. S. standard disk stamped "F 96 1935"	652.020

ROODHOUSE QUADRANGLE

[Latitude $39^{\circ}15'$ – $39^{\circ}30'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]

GREENE COUNTY

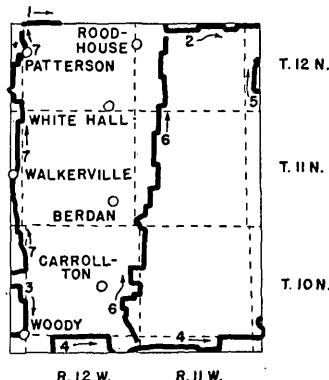


FIGURE 145.—Lines of leveling in Roodhouse quadrangle.

1. From point 3.6 miles south of Glasgow along road east to point 2.6 miles west and 0.4 mile south from Barrow (by S. R. Archer in 1924)

[Continued from Winchester quadrangle, line 5]

Glasgow, 3.6 mi. S. of, 1.4 mi. N. of Patterson, 80 ft. N. and 30 ft. W. from E $\frac{1}{4}$ cor. sec. 12, T. 12 N., R. 12 W., 5 ft. S. and 30 ft. W. from W $\frac{1}{4}$ cor. sec. 7, T. 12 N., R. 12 W., on W. side of rd., at junction of T-rd. E.; standard iron post with bronze cap stamped "Prim Trav Sta No 52 1911 17 A".

Reference mark, 30 ft. N. and 45 ft. E. from iron post, in NE. angle of rd. junction, in root on E. side of 24-in. maple tree used as corner fence post; copper nail and washer.

Glasgow, 3.6 mi. S. thence 0.7 mi. E. from, 0.25 mi. E. of center of sec. 7, T. 12 N., R. 12 W., 160 ft. W. of T-rd. S., on S. side of rd., in root on S. side of 30-in. locust tree; copper nail and washer.

Glasgow, 3.6 mi. S. thence 1.4 mi. E. from, about 650 ft. W. of center of sec. 8, T. 12 N., R. 12 W., 45 ft. E. of junction of T-rd. S., on N. side of rd., at fence line, in root 5 in. underground on W. side of 12-in. walnut tree; copper nail and washer.

Glasgow, 3.6 mi. S. thence 2.0 mi. E. from, 2.6 mi. W. thence 0.4 mi. S. from Barrow, 1.0 mi. N. and 4.0 mi. W. from Roodhouse, near E $\frac{1}{4}$ cor. sec. 8, T. 12 N., R. 12 W., 25 ft. N. and 40 ft. W. from T-junction of N.-S. rd., 4 ft. N. and 18 ft. W. from SE. corner of yard of residence, in root 3 in. underground on N. side of 6-in. boxelder tree; copper nail and washer.

Feet
638. 331

638. 37

640. 35

644. 75

645. 94

[Continued in Winchester quadrangle, line 6]

2. From point 1.5 miles east and 1.1 miles north from Roodhouse along roads south 0.4 mile, thence generally east to point east of center of sec. 7, T. 12 N., R. 10 W. (by S. R. Archer in 1924)

[Continued from Winchester quadrangle, line 6]

Roodhouse, 1.5 mi. E. thence 0.7 mi. N. from, near center of SE $\frac{1}{4}$ sec. 8, T. 12 N., R. 11 W., 450 ft. N. of residence of J. C. Andras, on W. side of rd., 4 ft. W. of fence line N., in line with E.-W. fence line, in concrete post; standard tablet stamped "20 A 1924"	Feet 644. 087
T. 12 N., R. 11 W., 0.25 mi. S. of center of sec. 9, 180 ft. E. of T-rd. E., on N. side of rd., inside field fence, in root on N. side of 15-in. wild-cherry tree; copper nail and washer	640. 36
T. 12 N., R. 11 W., about 0.25 mi. S. and 0.1 mi. W. from center of sec. 10, 75 ft. N. and 55 ft. W. from right-angle turn N. in rd., at junction of private rd. E., at entrance on E. side at NE. corner of residence of Frank Ballard, on top of S. end of lower concrete step; chiseled square	638. 77
T. 12 N., R. 11 W., 0.25 mi. W. of center of sec. 11, 20 ft. N. and 20 ft. E. from junction of T-rd. N., 8 ft. E. of fence corner, in concrete post; standard tablet stamped "21 A 1924"	630. 703
Reference mark, 580 ft. W. of tablet, 70 ft. W. of farmhouse on S. side of rd., on S. side of rd., on W. side of driveway, in root 4 in. underground on NW. side of cottonwood tree; copper nail and washer	628. 27
T. 12 N., R. 11 W., about 650 ft. S. of quarter corner between secs. 11 and 12, at Martin Prairie School, 50 ft. N. and 30 ft. E. from junction of T-rd. E., in SW. corner of schoolyard, in root on N. side of 15-in. elm tree; copper nail and washer	599. 52
T. 12 N., R. 11 W., about 500 ft. W. of E $\frac{1}{4}$ cor. sec. 12, 75 ft. S. of rd., in line with and 70 ft. N. of NE. corner of farmhouse owned by Merhoff heirs, 23 ft. N. of NE. corner of yard, in root on NW. side of 15-in. maple tree; copper nail and washer	594. 12

[Continued in Greenfield quadrangle, line 4]

3. From point 5 miles west of Carrollton along roads east and south by way of Hurricane to Woody, thence west 0.8 mile (by E. O. Brooks in 1924)

[Continued from Pearl quadrangle, line 1]

Carrollton, 4.4 mi. W. of, 0.6 mi. N. of Hurricane, 0.25 mi. E. of center of sec. 24, T. 10 N., R. 13 W., in SW. angle of junction of T-rd. S., in center of top of concrete wing wall of culvert; chiseled square	604. 38
Hurricane, at crossing of Chicago & Alton R. R.; top of N. rail	517. 4
Hurricane, 0.4 mi. SE. of, 1.8 mi. N. of Woody, 0.25 mi. S. of NE. cor. sec. 25, T. 10 N., R. 13 W., on N. side of rd., opposite T-rd. S., 3 ft. N. of fence, in root on SW. side of 36-in. hard-maple tree; copper nail and washer	565. 34
Woody, 1.0 mi. N. of, near NW. cor. sec. 31, T. 10 N., R. 12 W., in SE. angle of junction of T-rd. E., 170 ft. S. of T-rd. W., 10 ft. S. and 1 ft. W. from fence corner, 1 ft. W. of fence, in concrete post; standard tablet stamped "2 EB 1924"	596. 978
Reference mark, 15 ft. N. and 1 ft. W. from tablet, on top of E. end of concrete head wall of culvert; chiseled square	596. 47
Woody, in SE. angle of crossroads, at NW. corner of Woody store, on NW. corner of concrete walk; chiseled square	604. 51

[Continued in Pearl quadrangle, line 2]

4. From point 1.5 miles east and 0.9 mile south from Woody along roads north 0.9 mile, east 2.8 miles, and south 1 mile, thence alternately east and north to point 0.5 mile north and 2.4 miles west from Rockbridge (by E. O. Brooks in 1924)

[Continued from Jerseyville quadrangle, line 2]

Woody, 1.5 mi. E. of, 2.7 mi. S. thence 2.8 mi. W. from Carrollton, near N $\frac{1}{4}$ cor. sec. 5, T. 9 N., R. 12 W., in SE. angle of T-junction of E.-W. rd., 1 ft. N. and 5 ft. E. from fence corner, in concrete post; standard tablet stamped "4 EB 1924"	Feet 571.454
Reference mark, 50 ft. N. and 130 ft. E. from tablet, in root on SE. side of 36-in. walnut tree; copper nail and washer	570.29
Carrollton, 2.7 mi. S. thence 1.8 mi. W. from, near S $\frac{1}{4}$ cor. sec. 33, T. 10 N., R. 12 W., in NE. angle of junction of T-rd. N., 150 ft. E. of T-rd. S., in center of top of stone head wall of culvert; chiseled square	574.85
Carrollton, 2.7 mi. S. thence 1.0 mi. W. from, 0.3 mi. E. of SW. cor. sec. 34, T. 10 N., R. 12 W., on N. side of rd., opposite T-rd. S., 1 ft. S. of fence; top of $\frac{3}{4}$ -in. pipe	578.22
Carrollton, 2.7 mi. S. of, 0.4 mi. E. of NW. cor. sec. 2, T. 9 N., R. 12 W., in SW. angle of crossroads, 20 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "5 EB 1924"	553.884
Reference mark, 320 ft. S. and 20 ft. E. from tablet, in center of top of W. concrete head wall of culvert; chiseled square	553.26
[Jogs into Jerseyville quadrangle, line 3]	
Carrollton, 3.6 mi. SE. of along C. & A. R. R., about 700 ft. W. of E $\frac{1}{4}$ cor. sec. 1, T. 9 N., R. 12 W., 30 ft. N. and 25 ft. E. from R. R. crossing; standard iron post with bronze cap stamped "Prim Trav Sta No 55 1911"	472.753
Reference mark, 220 ft. W. of iron post, 180 ft. W. of track, on N. side of rd., 10 ft. N. of fence, in root on N. side of 36-in. oak tree; copper nail and washer	472.71
T. 9 N., R. 11 W., 0.25 mi. W. of center of sec. 5, in NW. angle of junction of T-rd. N., 6 ft. S. and 40 ft. W. from corner fence post, in root on E. side of 36-in. wild-cherry tree; copper nail and washer	506.88
T. 9 N., R. 11 W., 0.25 mi. E. of center of sec. 5, in SE. angle of junction of T-rd. S., in front of farmhouse, 2 ft. S. and 35 ft. E. from corner fence post, in root on N. side of 12-in. maple tree; copper nail and washer	500.97
T. 9 N., R. 11 W., near E $\frac{1}{4}$ cor. sec. 4, 0.7 mi. E. of Whiteoak School, 45 ft. N. and 30 ft. W. from T-junction of N.-S. rd., 22 ft. N. of fence corner, at W. right-of-way fence line, in concrete post; standard tablet stamped "13 EB 1924" ³⁸	475.626
Reference mark, 35 ft. N. of tablet, 80 ft. N. and 30 ft. W. from rd. junction, in root on NW. side of 48-in. elm tree; rail spike ³⁹	472.30
T. 9 N., R. 11 W., near center of SW $\frac{1}{4}$ sec. 2, 210 ft. S. of fence line E., on E. side of rd., in root on W. side of 48-in. elm tree; copper nail and washer	519.41
Tps. 9 and 10 N., R. 11 W., 0.25 mi. W. of quarter corner between secs. 2 and 35, about 500 ft. S. of crossing of Bear Creek, in center of junction of T-rd. E., on top of stone marking sixteenth corner; chiseled square	493.72

³⁸ As reset in 1937, when it was moved and reset at an elevation 0.385 ft. lower than that originally determined. The figures given represent the new elevation.

³⁹ Established in 1937.

T. 9 N., R. 11 W., 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 1, in SW. angle of junction of T-rd. S., opposite McKinley School, 6 ft. N. and 15 ft. E. from fence corner, in center of top of concrete head wall of culvert; chiseled square-----	Feet 535. 14
Tps. 9 and 10 N., R. 10 W., near W. cor. secs. 6 and 31, 2 ft. N. and 50 ft. E. from steel bridge over small drain, on N. side of rd., in fence line, in root on SE. side of 12-in. elm tree; copper nail and washer-----	507. 96
T. 10 N., R. 10 W., near S $\frac{1}{4}$ cor. sec. 31, in NW. angle of rd. junction, 12 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "14 EB 1924" (recovered in 1925)-----	475. 128
Reference mark, 55 ft. S. and 7 ft. W. from tablet, in SW. angle of rd. junction, 2 ft. N. and 5 ft. W. from end of hedge fence, 6 in. underground; top of $\frac{3}{4}$ -in. pipe (recovered in 1925)-----	474. 03
T. 10 N., R. 10 W., near S $\frac{1}{4}$ cor. sec. 30, 0.5 mi. N. thence 2.5 mi. W. from Rockbridge, on N. side of E.-W. rd., opposite rd. S., in root on NE. side of 12-in. Osage-orange tree; copper nail and washer-----	528. 05

[Continued in Greenfield quadrangle, line 5]

5. From point about 1 mile northeast of junction of Nigger Lick and Apple Creeks along roads west 0.3 mile, thence north and east to point near center of northeast quarter sec. 19, T. 12 N., R. 10 W. (by E. O. Brooks in 1924)

[A jog from Greenfield quadrangle, line 5]

T. 12 N., R. 10 W., 0.25 mi. S. of center of sec. 30, in SW. angle of junction of T-rd. W., 15 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "19 EB 1924"-----	490. 800
T. 12 N., R. 10 W., at quarter corner between secs. 19 and 30, in center of junction of T-rd. W., on top of stone marking quarter corner; chiseled square-----	516. 97
T. 12 N., R. 10 W., near center of NE $\frac{1}{4}$ sec. 19, in NE. angle of junction of T-rd. E., 50 ft. N. and 2 ft. W. from fence corner, in root on E. side of 4-in. wild-cherry tree; copper nail and washer-----	512. 03

[Continued in Greenfield quadrangle, line 5]

6. From road crossing 3.6 miles southeast of Carrollton northwest 1.7 miles along Chicago & Alton Railroad, thence generally northeast along roads to point 1.5 miles east and 0.7 mile north from Roodhouse (by E. O. Brooks in 1924)

Carrollton, 1.7 mi. in air line S. and 1.2 mi. E. from, 0.25 mi. E. of NW. cor. sec. 36, T. 10 N., R. 12 W., on S. side of rd., at angle, 5 ft. S. of fence, in root on W. side of 36-in. boxelder tree; copper nail and washer-----	556. 75
Carrollton, 0.7 mi. S. thence 0.9 mi. E. from, near S. cor. secs. 23 and 24, T. 10 N., R. 12 W., on N. side of E.-W. rd., 25 ft. W. of center line of T-rd. S., 1 ft. S. of fence, in concrete post; standard tablet stamped "7 EB 1924"-----	584. 347
Reference mark, 40 ft. S. and 30 ft. W. from tablet, in SW. angle of rd. junction, in fence line, in root on N. side of 12-in. oak tree; copper nail and washer-----	586. 95
Carrollton, 2.0 mi. E. thence 0.5 mi. S. from, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 19, T. 10 N., R. 11 W., 120 ft. S. of junction of NW.-SE. rd., at gate to barnyard, in center of top of S. end of concrete culvert; chiseled square-----	605. 14

	Feet
Carrollton, 1.4 mi. E. of, 0.3 mi. NW. of center of sec. 24, T. 10 N., R. 12 W., in NE. angle of junction of T-rd. N., 15 ft. S. and 15 ft. W. from fence corner, in center of top of concrete head wall of culvert; chiseled square	625. 14
Carrollton, 1.4 mi. E. thence 0.9 mi. N. from, N. of center of sec. 13, T. 10 N., R. 12 W., 100 ft. W. of T-rd. N., 350 ft. E. of angle in rd., in center of top of S. concrete head wall of culvert over small drain; chiseled square	616. 85
Carrollton, 2.2 mi. E. and 0.9 mi. N. from, in NW $\frac{1}{4}$ sec. 18, T. 10 N., R. 11 W., in NW. angle of junction of T-rd. N., 5 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "8 EB 1924"	623. 487
Reference mark, 60 ft. N. of tablet, on W. side of rd., 2 ft. E. of fence, in root on SE. side of 12-in. elm tree; copper nail and washer	622. 81
Carrollton, 2.3 mi. E. and 1.7 mi. N. from, 0.25 mi. W. of center of sec. 7, T. 10 N., R. 11 W., 130 ft. S. of private T-rd. E., on E. side of rd., 4 ft. W. of hedge fence, in root on W. side of twin elm trees; copper nail and washer	596. 35
Carrollton, 2.3 mi. E. and 2.2 mi. N. from, near center of N. side of NW $\frac{1}{4}$ sec. 7, T. 10 N., R. 11 W., near NW. corner of yard at Diamond School, 3 ft. E. of fence, in root on W. side of 36-in. elm tree; copper nail and washer	581. 10
Carrollton, 2.3 mi. E. and 2.8 mi. N. from, in NW $\frac{1}{4}$ sec. 6, T. 10 N., R. 11 W., on W. side at end of rd., opposite gate to barnyard, 6 in. E. of fence; top of $\frac{3}{4}$ -in. pipe	555. 60
Carrollton, 2.3 mi. E. and 3.7 mi. N. from, 1.7 mi. SE. thence 0.4 mi. S. from Berdan, near center of sec. 31, T. 11 N., R. 11 W., 85 ft. W. of angle in rd., in NW. corner of yard to farmhouse, in root on NW. side of 24-in. hickory tree; copper nail and washer	541. 18
Berdan, 1.7 mi. SE. of, 20 ft. N. and 10 ft. W. from S $\frac{1}{4}$ cor. sec. 30, T. 11 N., R. 11 W., on N. side of E.-W. rd., opposite rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 56 1911 9 EB 1924"	534. 563
Reference mark, 45 ft. S. and 10 ft. W. from iron post, in SW. angle of rd. junction, in root on E. side of 24-in. Osage-orange tree; copper nail and washer	533. 86
Berdan, 0.8 mi. N. and 1.7 mi. E. from, 0.25 mi. W. of SE. cor. sec. 19, T. 11 N., R. 11 W., on N. side of E.-W. rd., opposite T-rd. S., 7 ft. N. of fence, in root on E. side of 18-in. walnut tree; copper nail and washer	505. 84
Berdan, 1.3 mi. N. and 2.2 mi. E. from, 0.25 mi. W. of center of sec. 20, T. 11 N., R. 11 W., in SE. angle of junction of T-rd. E., in root on SW. side of 12-in. Osage-orange tree used as corner fence post; copper nail and washer	466. 37
Berdan, 2.0 mi. N. and 2.0 mi. E. from, 3.0 mi. E. thence 3.3 mi. S. from White Hall, 0.15 mi. N. of SW. cor. sec. 17, T. 11 N., R. 11 W., in NE. angle at turn in rd., in concrete post; standard tablet stamped "10 EB 1924" ⁴⁰	459. 769
Reference mark, 15 ft. S. and 8 ft. E. from tablet, in root on SE. side of 24-in. oak tree; copper nail and washer	459. 66

⁴⁰ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "F 96 1935," elevation 476.479 ft.

	Feet
White Hall, 3.0 mi. E. thence 2.3 mi. S. from, near W. side SW $\frac{1}{4}$ sec. 8, T. 11 N., R. 11 W., about 300 ft. N. of crossing of Chicago, Burlington & Quincy R. R., on E. side of rd., in NW. corner of barnyard, in root on W. side of 24-in. boxelder tree; copper nail and washer-----	474.00
White Hall, 3.0 mi. E. thence 1.2 mi. S. from, 0.25 mi. E. of W. cor. secs. 5 and 8, T. 11 N., R. 11 W., opposite T-rd. E., in front of farmhouse, 7 ft. E. of yard fence, in root on S. side of 12-in. maple tree; copper nail and washer-----	509.75
White Hall, 3.0 mi. E. thence 0.8 mi. S. from, 0.25 mi. W. of center of sec. 5, T. 11 N., R. 11 W., in NE. angle of crossroads, 1 ft. S. and 8 ft. E. from fence corner, in concrete post; standard tablet stamped "11 EB 1924"-----	522.761
Reference mark, 60 ft. S. of tablet, in NW. corner of churchyard, in root on W. side of 6-in. maple tree; copper nail and washer-----	522.37
White Hall, 3.4 mi. E. of, near center of SE $\frac{1}{4}$ sec. 32, T. 12 N., R. 11 W., on S. side of E.-W. rd., opposite T-rd. N., in fence line, in root on N. side of twin hackberry trees; copper nail and washer-----	559.46
White Hall, 3.4 mi. E. thence 0.7 mi. N. from, 0.3 mi. W. of NE. cor. sec. 32, T. 12 N., R. 11 W., 75 ft. W. of steel bridge over Wolf Run Creek, in SW. angle of crossroads, 3 ft. N. of fence, in root on NW. side of 12-in. elm tree; copper nail and washer-----	519.56
White Hall, 3.4 mi. E. thence 1.7 mi. N. from, 1.5 mi. E. thence 2.0 mi. S. from Roodhouse, 0.3 mi. N. of Oakland Church, 0.25 mi. N. of center of sec. 29, T. 12 N., R. 11 W., in NE. angle of T-junction of N.-S. rd., 6 ft. N. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "12 EB 1924"-----	608.470
Reference mark, 210 ft. E. of tablet, at farmhouse, in front of gate to yard, in root on S. side of 24-in. maple tree; copper nail and washer-----	608.70
Roodhouse, 1.5 mi. E. thence 1.0 mi. S. from, 0.25 mi. N. of center of sec. 20, T. 12 N., R. 11 W., in NW. angle of junction of T-rd. W., in SE. corner of yard at Bending Oak School, 35 ft. N. of gate, 6 ft. W. of fence, in root on E. side of 18-in. cottonwood tree; copper nail and washer-----	626.28
Roodhouse, 1.5 mi. E. of, 0.25 mi. E. of center of sec. 17, T. 12 N., R. 11 W., in SW. angle of crossroads, at E. entrance to farmhouse, 8 ft. E. of yard gate, on top of SE. corner of concrete walk; chiseled square-----	643.68
7. From point 5 miles west and 0.6 mile north from Carrollton along roads east 0.8 mile, thence generally north by way of Walker-ville and Patterson to road junction 3.6 miles south of Glasgow (by E. O. Brooks in 1924)	
[Continued from Pearl quadrangle, line 3]	
Carrollton, 4.2 mi. W. thence 0.6 mi. N. from, 0.25 mi. N. of SE. cor. sec. 18, T. 10 N., R. 13 W., in NW. angle of junction of range-line rd., 5 ft. N. and 30 ft. W. from fence corner, in root on N. side of 24-in. locust tree; copper nail and washer-----	591.79
Carrollton, 4.2 mi. W. thence 1.0 mi. N. from, 0.25 mi. N. of SE. cor. sec. 12, T. 10 N., R. 13 W., on summit of hill, on W. side of rd., 600 ft. N. of house, 10 ft. E. of fence, in root on E. side of 36-in. oak tree; copper nail and washer-----	586.23

832 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Carrollton, 4.2 mi. W. thence 1.5 mi. N. from, 4.5 mi. S. of Walker-ville, 0.25 mi. E. of center of sec. 12, T. 10 N., R. 13 W., in S. angle at rd. fork, 5 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "20 EB 1924"	563. 650
Reference mark, 55 ft. N. of tablet, in root on W. side of 30-in. elm tree; copper nail and washer	561. 31
Walkerville, 3.7 mi. S. of, 0.25 mi. E. of center of sec. 1, T. 10 N., R. 13 W., in SE. angle of rd. fork, 20 ft. E. of fence corner, 6 in. N. of fence; top of $\frac{3}{4}$ -in. pipe	579. 34
Walkerville, 2.6 mi. S. of, 0.25 mi. E. of center of sec. 36, T. 11 N., R. 13 W., on S. side of Apple Creek, on summit of hill, on E. side of rd., on S. side of old rd. E., 6 in. W. of fence; top of $\frac{3}{4}$ -in. pipe	493. 79
Walkerville, 2.1 mi. S. of, in NE $\frac{1}{4}$ sec. 36, T. 11 N., R. 13 W., 2 ft. S. of SE. corner of steel bridge over Apple Creek, on top of stone retaining wall; chiseled square	442. 17
Walkerville, 1.5 mi. S. of, near center of sec. 25, T. 11 N., R. 13 W., in NW. angle of crossroads, 35 ft. E. of fence corner, on large rock; chiseled square	513. 81
Walkerville, 0.4 mi. S. of, near center of sec. 24, T. 11 N., R. 13 W., in NW. angle of junction of T-rd. W., 50 ft. N. and 3 ft. E. from fence corner, in root on E. side of 24-in. elm tree; copper nail and washer	588. 36
Walkerville, at N. edge of, on N. side of E.-W. rd., 20 ft. N. of center line of rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta 53 1911 21 EB 1924"	574. 506
Walkerville, 0.2 mi. E. thence 0.5 mi. N. from, near center of SE $\frac{1}{4}$ sec. 13, T. 11 N., R. 13 W., on E. side of rd., 150 ft. N. of house, 4 ft. N. of gate, in fence line; top of $\frac{3}{4}$ -in. pipe	582. 79
Walkerville, 0.2 mi. E. thence 1.2 mi. N. from, 0.25 mi. W. of NE. cor. sec. 13, T. 11 N., R. 13 W., 50 ft. S. and 20 ft. E. from junction of T-rd. W., 4 ft. W. of fence, in root on W. side of 30-in. boxelder tree; copper nail and washer	598. 87
Walkerville, 0.2 mi. E. thence 2.5 mi. N. from, near center of SE $\frac{1}{4}$ sec. 1, T. 11 N., R. 13 W., 135 ft. N. and 20 ft. W. from junction of T-rd. W., in root on E. side of 36-in. elm tree; copper nail and washer	622. 58
Walkerville, 0.5 mi. E. and 2.8 mi. N. from, 4.6 mi. W. thence 1.0 mi. S. from White Hall, near E $\frac{1}{4}$ cor. sec. 1, T. 11 N., R. 13 W., in NW. angle of junction of T-rd. N., 1 ft. S. and 4 ft. W. from fence corner, in concrete post; standard tablet stamped "22 EB 1924"	620. 031
Reference mark, 30 ft. N. and 50 ft. E. from tablet, in root on W. side of 12-in. elm tree; copper nail and washer	619. 66
White Hall, 4.6 mi. W. of, near W $\frac{1}{4}$ cor. sec. 31, T. 12 N., R. 12 W., in SE. angle of T-junction of E.-W. rd., in NW. corner of yard of residence, in root on W. side of 48-in. elm tree; copper nail and washer	613. 87
White Hall, 5.1 mi. W. thence 0.8 mi. NW. from, 2.3 mi. E. of Hillview, 1.8 mi. SW. of Drake, in SW $\frac{1}{4}$ sec. 25, T. 12 N., R. 13 W., in NW. angle of junction of rd. NE., in center of top of concrete head wall of culvert; chiseled square ⁴¹	479. 95

⁴¹ In 1936 this bench mark, which may be in Pearl quadrangle, was tied to U. S. C. & G. S. standard disk stamped "T 82 1935," elevation 493.969 ft.

	<i>Feet</i>
Hillview, 2.6 mi. E. thence 1.2 mi. N. from, 1.2 mi. SW. of Patterson, near center of sec. 24, T. 12 N., R. 13 W., in SW. angle of T-junction of E.-W. rd., 1 ft. N. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "23 EB 1924"-----	660.260
Patterson, 0.3 mi. SW. of crossroads, near cor. secs. 13, 18, 19, and 24, T. 12 N., Rs. 12 and 13 W., at right-angle in rd., in front of gate to yard of residence, on SW. corner at end of concrete walk; chiseled square-----	671.69
Patterson, 0.4 mi. N. of, near W $\frac{1}{4}$ cor. sec. 18, T. 12 N., R. 12 W., in NE. angle of junction of T-rd. N., 8 ft. N. and 25 ft. E. from fence corner, in root on N. side of 24-in. elm tree; copper nail and washer-----	673.31

RUSHVILLE QUADRANGLE

[Latitude $40^{\circ}00'$ – $40^{\circ}15'$; longitude $90^{\circ}30'$ – $90^{\circ}45'$]

BROWN AND SCHUYLER COUNTIES

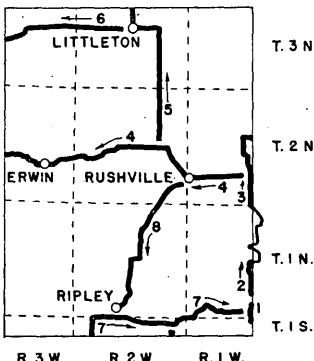


FIGURE 146.—Lines of leveling in Rushville quadrangle.

1. From point on State Highway 103 about 4 miles west of Beardstown south along levee road 1.2 miles to road junction 0.25 mile north of center of sec. 3, T. 1 S., R. 1 W. (by F. L. Shalibo in 1923)

[Continued from Beardstown quadrangle, line 3]

Beardstown, 4.1 mi. along State Highway 103 W. of, near quarter corner between secs. 27 and 34, T. 1 N., R. 1 W., at SE. corner of twin bridges, on end of upright I-beam of retaining wall; chiseled cross-----

Feet
444.19

Beardstown, 4.1 mi. W. thence 1.2 mi. S. from, 0.25 mi. N. of center of sec. 3, T. 1 S., R. 1 W., 0.25 mi. S. of base line, 66 ft. E. of N.-S. rd., along W. side of levee, in line with rd. W., on top of levee; standard iron post with bronze cap stamped "Prim Trav Sta No 10 1914 S 1 1923"-----

450.690

Reference mark, 1,400 ft. N. of iron post, on W. side of rd., in root of large tree; copper nail-----

436.82

2. From State Highway 103 at point 4.1 miles west of Beardstown north and east along roads to point 2.1 miles north and 4 miles west from Beardstown (by F. L. Shalibo in 1923)

Beardstown, 4.1 mi. W. thence 1.0 mi. N. from, 400 ft. S. of N $\frac{1}{4}$ cor. sec. 27, T. 1 N., R. 1 W., in SW. angle of crossroads, in rear of farmhouse, on NE. corner of concrete curb around top of well; chiseled square-----

483.95

Beardstown, 2.1 mi. N. and 4.2 mi. W. from, 2.0 mi. S. thence 4.8 mi. SE. from Rushville, 0.15 mi. W. of N $\frac{1}{4}$ cor. sec. 22, T. 1 N., R. 1 W., 150 ft. E. of junction of N.-S. rd., 30 ft. S. of E.-W. rd., 1 ft. N. of fence line, in concrete post; aluminum tablet stamped "2 S 1923"-----

600.667

Reference mark, 60 ft. E. of tablet, 5 ft. N. of fence line, in root of large tree; copper nail-----

604.67

[Continued in Beardstown quadrangle, line 4]

3. From point 1.7 miles south and 3.3 miles east from Rushville along roads alternately north and west to Kinderhook School, thence east 0.5 mile (by F. L. Shalibo in 1923)

[A jog from Beardstown quadrangle, line 4]

Rushville, 3.3 mi. E. thence 1.7 mi. S. from, about 2 mi. W. of Pleasantview, near N $\frac{1}{4}$ cor. sec. 3, T. 1 N., R. 1 W., opposite junction of rd. NE., 40 ft. SW. of improved county rd., in field, in root on N. side of large tree; copper nail-----

Rushville, 3.3 mi. E. thence 0.7 mi. S. from, 0.1 mi. S. of N $\frac{1}{4}$ cor. sec. 34, T. 2 N., R. 1 W., opposite driveway to farmhouse, on W. side of rd., in root on E. side of 30-in. tree; copper nail-----

Rushville, 3.3 mi. E. of along U. S. Highway 67, near center of sec. 27, T. 2 N., R. 1 W., 40 ft. S. of center line of highway, 20 ft. E. of rd. S., about in line with rd. N., 10 ft. S. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 11 1914 4 S 1923"-----

Reference mark, 20 ft. NW. of iron post, on top of E. head wall of concrete culvert under N.-S. rd.; chiseled square-----

Rushville, 1.0 mi. N. and 2.8 mi. E. from, near W $\frac{1}{4}$ cor. sec. 22, T. 2 N., R. 1 W., at right-angle turn in rd. from W. to N., 10 ft. from E. side of rd., in fence corner, on concrete base of fence post; chiseled square-----

Rushville, 2.0 mi. N. and 2.8 mi. E. from, near W $\frac{1}{4}$ cor. sec. 15, T. 2 N., R. 1 W., near Kinderhook School, in NE. angle of crossroads, at S. end of concrete walk to church; chiseled square-----

Feet
643.06

679.07

695.348

693.01

687.95

665.19

[Continued in Beardstown quadrangle, line 4]

4. From crossroads 3.3 miles east of Rushville west and northwest along U. S. Highway 67 to crossroads 2.7 miles northwest of Rushville, thence generally west along improved county road to point 0.8 mile south and 1 mile east from Camden (by F. L. Shalibo in 1923)

Rushville, 1.0 mi. E. of, 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 29, T. 2 N., R. 1 W., on N. side of highway, on head wall of concrete culvert; chiseled square-----

646.72

Rushville, at E. entrance of high school building, on N. side of steps, in capstone; standard tablet stamped "8 S 1923"-----

675.717

673.46

Reference mark, E. of tablet, on sidewalk; chiseled square-----

673.61

Rushville, 1.2 mi. NW of, in NW. angle of junction of private rd. W., on N. end of concrete culvert; chiseled square-----

Rushville, 2.7 mi. NW. of, near S $\frac{1}{4}$ cor. sec. 14, T. 2 N., R. 2 W., in NW. angle of highway and rd. intersection, at right angle on wall of concrete culvert; chiseled square-----

662.49

Rushville, 3.4 mi. NW. of, 20 ft. W. of Ebenezer Church, 0.2 mi. W. of NE. cor. sec. 22, T. 2 N., R. 2 W., 40 ft. S. of rd., in root on N side of 42-in elm tree; copper nail-----

667.68

Ebenezer Church, 0.8 mi. W. of, near NW. cor. sec. 22, T. 2 N., R. 2 W., 30 ft. S. and 35 ft. E. from crossroads, 2 ft. N. of fence line; standard iron post with bronze cap stamped "Prim Trav Sta No 12 1914 12 S 1923"-----

654.540

Reference mark, 20 ft. NW. of iron post, on S. end of stone culvert; chiseled square-----

652.90

Ebenezer Church, 1.9 mi. SW. of, 4.3 mi. NE. of Erwin, 0.15 mi. S. of N. cor. secs. 20 and 21, T. 2 N., R. 2 W., 70 ft. NE. of junction of rd. S., on N. side of rd. and fence, in root on S. side of 36-in. oak tree; copper nail-----

621.82

836 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Erwin, 3.3 mi. NE. of, near center of sec. 20, T. 2 N., R. 2 W., 105 ft. N. of center line of crushed rock highway, 200 ft. E. of E. origin of curve S. in highway, on S. end of concrete box culvert in barn lot of Dwight Young; chiseled square (established in 1933 to replace B. M. on culvert which was destroyed)	596. 21
Erwin, 2.4 mi. NE. of, near center of sec. 19, T. 2 N., R. 2 W., at SW. corner of Oakwood School, 150 ft. NE. of junction of rd. S., in concrete porch; aluminum tablet stamped "13 S 1923"	596. 168
Reference mark, 80 ft. SW. of tablet, on NE. corner of curb around top of well; chiseled square	597. 38
Erwin, 1.3 mi. NE. of, in SE $\frac{1}{4}$ sec. 24, T. 2 N., R. 3 W., 600 ft. NE. of junction of rd. N., on N. side of rd., on W. end of N. head wall of concrete culvert; chiseled square	467. 05
Erwin, at SW. corner of store of Bird Morell, in root on W. side of large tree; copper nail	555. 82
Erwin, 0.6 mi. W. of, at Bethany Church, near NW. cor. sec. 26, T. 2 N., R. 3 W., 170 ft. E. of junction of rd. S., 50 ft. S. of rd., on W. end of top concrete step; chiseled square	578. 39
Erwin, 1.6 mi. NW. of, at Union Chapel, in center of concrete walk between front doors, 1 ft. from foundation; aluminum tablet stamped "14 S 1923"	599. 844
Reference mark, 40 ft. SW. of tablet, in root on S. side of 36-in. oak tree; copper nail	600. 30
Erwin, 2.5 mi. NW. of, 0.8 mi. S. and 1.2 mi. E. from Camden, near center of sec. 21, T. 2 N., R. 3 W., 50 ft. SW. of rd. fork, in root on E. side of large oak tree; copper nail	566. 35
[Connects with line 2 in Augusta quadrangle]	
5. From crossroads 2.7 miles northwest of Rushville north along U. S. Highway 67 and west along State Highway 101 to Littleton, thence north along road 1.1 miles (by F. L. Shalibo in 1923)	
Rushville, 3.8 mi. NW. of, 1.5 mi. E. thence 4.9 mi. S. from Littleton, 0.13 mi. N. of S $\frac{1}{4}$ cor. sec. 11, T. 2 N., R. 2 W., on E. side of highway, 4 ft. E. of fence line, in root on W. side of large tree; copper nail	681. 54
Reference mark, 25 ft. S. of tablet, in NW. angle of rd. intersection, in root on S. side of large tree; copper nail	686. 06
Littleton, 1.5 mi. E. thence 4.0 mi. S. from, near S $\frac{1}{4}$ cor. sec. 2, T. 2 N., R. 2 W., 60 ft. NW. of rd. intersection, 1 ft. E. of fence, in front of farmhouse, in concrete post; standard tablet stamped "9 S 1923"	684. 790
Littleton, 1.5 mi. E. thence 2.8 mi. S. from, 0.25 mi. S. of center of sec. 35, T. 3 N., R. 2 W., on W. side of highway, in root on E. side of large tree; copper nail	675. 64
Littleton, 1.5 mi. E. thence 1.0 mi. S. from, near N $\frac{1}{4}$ cor. sec. 26, T. 3 N., R. 2 W., 40 ft. SE. of rd. intersection, 1 ft. S. of fence line, in concrete post; standard tablet stamped "10 S 1923"	670. 082
Littleton, 1.5 mi. E. of, near N $\frac{1}{4}$ cor. sec. 23, T. 3 N., R. 2 W., 80 ft. W. of N-S. highway, on S. side of E-W. highway, in root on N. side of large tree; copper nail	671. 86
Littleton, 45 ft. NW. of NW. corner of sta. of Macomb & Western Illinois R. R. (abandoned), W. of tracks, in NE. corner of field; standard iron post with bronze cap stamped "Prim Trav Sta No 47 1911 11 S 1923"	685. 884
Reference mark, 40 ft. E. of iron post, on S. side of rd., on end of sidewalk; chiseled square	685. 78

[Connects with line 5 in Macomb quadrangle]

6. From Littleton west along State Highway 101 to point 0.5 mile north and 0.7 mile east from Brooklyn (by F. L. Shalibo in 1923)

Littleton, 1.2 mi. W. of, in NE $\frac{1}{4}$ sec. 20, T. 3 N., R. 2 W., 660 ft. W. of junction of second-class rd. S., on N. end of concrete walk to farmhouse; chiseled square	Feet 699.02
Littleton, 2.1 mi. W. of, near NW. cor. sec. 20, T. 3 N., R. 2 W., 50 ft. SE. of junction of rd. S., 2 ft. S. of fence line, in concrete post; aluminum tablet stamped "19 S 1923"	692.567
Littleton, 3.1 mi. W. of, near NE. cor. sec. 24, T. 3 N., R. 3 W., 100 ft. W. of jog in rd. and junction of rd. N., on S. side of highway, 1 ft. S. of fence line, in root on N. side of large tree; copper nail	670.29
Littleton, 4.3 mi. W. of, 0.2 mi. W. of SE. cor. sec. 14, T. 3 N., R. 3 W., 280 ft. E. of junction of T-rd. S., on N. side of highway, in root on N. side of large tree; copper nail	637.18
Littleton, 5.1 mi. W. of, near NW. cor. sec. 23, T. 3 N., R. 3 W., 75 ft. E. of junction of T-rd. N., 20 ft. S. of highway, 2 ft. S. of fence, in concrete post; standard tablet stamped "18 S 1923" (destroyed in 1929)	596.543
Reference mark 1, 10 ft. NE. of tablet, in root of large tree; copper nail	596.05
Reference mark 2, 300 ft. E. of tablet, on NE. headwall of 2- by 2-ft. concrete culvert; chiseled cross (established in 1929 to supersede tablet)	595.69
Littleton, 5.9 mi. W. of, 2.3 mi. NE. of Brooklyn, in NW $\frac{1}{4}$ sec. 22, T. 3 N., R. 3 W., on SW. wing wall of 60-ft.-span highway bridge; chiseled cross (established in 1929 to replace supplementary B. M. on bridge which was destroyed)	498.32

[Continued in Augusta quadrangle, line 2]

7. From point near southwest corner sec. 5, T. 1 S., R. 2 W., along roads north 1 mile, thence generally east to road junction 0.25 mile north of center of sec. 3, T. 1 S., R. 1 W. (by F. L. Shalibo in 1923)

[Continued from Meredosia quadrangle, line 2]

Myers School, 600 ft. N. of, near SW. cor. sec. 5, T. 1 S., R. 2 W., on E. side of rd., on S. end of concrete culvert under driveway to farmhouse; chiseled square	591.92
Myers School, 1.0 mi. N. of, near NW. cor. sec. 5, T. 1 N., R. 2 W., 300 ft. W. of junction of rd. NE., on S. side of base-line rd., on E. end of E. concrete culvert under driveway to farmhouse; chiseled square	591.40
Myers School, 1.0 mi. N. and 1.0 mi. E. from, 0.7 mi. SW. of Ripley, near NW. cor. sec. 4, T. 1 S., R. 2 W., in SE. angle of crossroads, at fence corner, in concrete post; aluminum tablet stamped "26 S 1923"	570.093
Reference mark, 55 ft. N. of tablet, in NE. angle of crossroads, in root of tree; copper nail	570.22
T. 1 S., R. 2 W., in NW $\frac{1}{4}$ sec. 3, at NE. corner of bridge over Crooked Creek, on stone abutment; chiseled square	455.47
T. 1 S., R. 2 W., 0.25 mi. N. of center of sec. 2, 200 ft. W. of junction of private rd. N., on N. side of rd., opposite junction of second-class rd. S., on E. end of stone culvert; chiseled square	552.49
T. 1 S., R. 2 W., near center of NW $\frac{1}{4}$ sec. 1, in NE. angle of junction of N.-S. rd. and rd. E., near fence corner, in concrete post; aluminum tablet stamped "27 S 1923" (recovered in 1927)	557.492

838 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Reference mark, 50 ft. SE. of tablet, on N. side of rd., on concrete culvert; chiseled square-----	555.82
T. 1 S., R. 2 W., 0.1 mi. W. of NE. cor. sec. 1, 130 ft. W. of junction of rd. N., in fence line near gate, in root on S. side of large tree; copper nail-----	580.78
T. 1 N., R. 1 W., near center of sec. 31, at right-angle turn in rd. from NE. to SE., on SE. side of turn, at fence corner, in root of small tree; copper nail-----	631.69
T. 1 N., R. 1 W., in NW $\frac{1}{4}$ sec. 32, at junction of second-class rd. N., 30 ft. S. of rd., 3 ft. N. of fence corner, in concrete post; aluminum tablet stamped "28 S 1923"-----	653.285
T. 1 N., R. 1 W., 0.25 mi. E. of center of sec. 32, in SW. angle of rd. forks, in root on W. side of large tree; copper nail-----	463.83
T. 1 N., R. 1 W., near center of sec. 33, 300 ft. W. of second-class T-rd. N., on N. side of rd., in SE. corner of yard of farmhouse, in root on E. side of large tree; copper nail-----	440.14
8. From Rushville southwest along U. S. Highway 24 to point 0.7 mile southwest of Ripley (by F. L. Shalibo in 1923)	
Rushville, 1.0 mi. SW. of, at NE. corner of Scripp's Park, 70 ft. S. of rd. junction, on W. side of N.-S. rd., in root of large tree; copper nail-----	622.44
Rushville, 2.0 mi. SW. of, in NW. angle of junction of second-class rd. W., on concrete block of brace for corner fence post; chiseled square-----	650.75
Rushville, 3.2 mi. SW. of, 0.12 mi. E. of W $\frac{1}{4}$ cor. sec. 2, T. 1 N., R. 2 W., opposite junction of rd. W., 4 ft. E. of fence line, in concrete post; aluminum tablet stamped "29 S 1923"-----	640.600
Reference mark, 140 ft. NE. of tablet, on NW. side of highway, 0.3 ft. W. of fence line, in root on E. side of large tree; copper nail-----	642.10
Rushville, 4.1 mi. SW. of, in NE $\frac{1}{4}$ sec. 10, T. 1 N., R. 2 W., 200 ft. N. of junction of rd. E., 70 ft. W. of highway, 15 ft. W. of fence line, in yard of farmhouse, in root of large tree; copper nail-----	639.81
Rushville, 5.1 mi. SW. of, near N $\frac{1}{4}$ cor. sec. 15, T. 1 N., R. 2 W., 150 ft. S. of junction of T-rd. E., in fence line, in root on W. side of walnut tree; copper nail-----	628.89
Reference mark, 30 ft. N. of tablet, 70 ft. SE. of rd. intersection, in root on W. side of apple tree; copper nail-----	596.31
Rushville, 6.1 mi. SW. of, 3.7 mi. NE. of Ripley, near N $\frac{1}{4}$ cor. sec. 22, T. 1 N., R. 2 W., 80 ft. SE. of rd. intersection, near base of peach tree, in concrete post; aluminum tablet stamped "30 S 1923"-----	597.145
Ripley, 2.1 mi. NE. of, near SE. cor. sec. 21, T 1 N., R. 2 W., in NE. angle of junction of rd. E., in root on W. side of large tree; copper nail-----	582.82
Ripley, 0.9 mi. NE. of, 0.2 mi. W. of SE. cor. sec. 28, T. 1 N., R. 2 W., 60 ft. E. of three corners, in front of farmhouse, at end of sidewalk, on concrete step; chiseled square-----	472.49
Ripley, 100 ft. E. of cross streets, on SE. corner of curb around top of well; chiseled square-----	556.18

SPRINGFIELD QUADRANGLE

[Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $89^{\circ}30' - 89^{\circ}45'$]

LOGAN, MENARD, AND SANGAMON COUNTIES

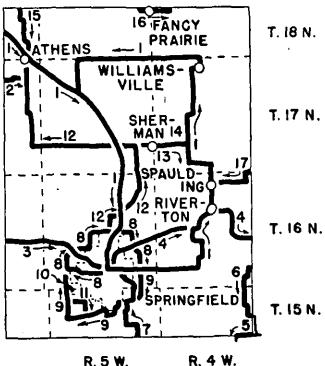


FIGURE 147.—Lines of leveling in Springfield quadrangle.

1. From point 1.9 miles northwest of Athens southeast and south along Chicago, Peoria & St. Louis Railway⁴² and streets to Springfield, thence along roads east 5 miles, thence generally north by way of Riverton to road junction 0.5 mile north of Williamsville, thence west and south to Cantrall (by R. C. Howard in 1905; double-rodded line to Athens)

[Continued from Tallula quadrangle, line 1]

Athens, 1 block N. of center of, on E. side of street, on W. side of city hall, in water table; aluminum tablet stamped "1905 606 Adj" ⁴³	Feet 605.680
Cantrall, on E. side of building of Cantrall Cooperative Coal Co., 3 ft. N. of S. side, in water table; aluminum tablet stamped "1905 596 Adj" ⁴⁴	596.041
Cantrall, 2.8 mi. SE. of, 0.7 mi. NW. of Andrew, on N. side of Dunlap School, 2 ft. from E. wall, in brick foundation; aluminum tablet stamped "1905 584 Adj" (recovered in 1925)	583.611
Sangamon River; surface of water June 13, 1905	507.0
Ridgely, opposite milepost "St. Louis 97 mi."; top of E. rail of main track	593.4
Springfield, on E. side of post office, 49 ft. N. of SE. corner, in water table; aluminum tablet stamped "1905 599 Adj" and "Prim Tray Sta No 38 F 1925" (recovered in 1925)	598.795
Springfield, at SW. entrance to Sangamon County courthouse, in stone post; copper bolt (City of Springfield B. M.) ⁴⁵	597.974

⁴² Now the Chicago & Illinois Midland Ry.

⁴³ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "B 36 1936," elevation 613.142 ft.

⁴⁴ In 1913 this bench mark was reported destroyed.

⁴⁵ In 1922 this bench mark was reported destroyed.

840 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Springfield, 2.3 mi. E. of, 0.4 mi. W. of Pleasant Hill School, on N. side of rd., in root of elm tree; copper nail-----	576. 70
Springfield, 3.0 mi. E. of, near NW. cor. sec. 31, T. 16 N., R. 4 W., at junction of rd. NE., on S. side of rd., in locust tree; copper nail-----	585. 15
Springfield, 5.0 mi. E. of, 0.25 mi. E. of NW. cor. sec. 33, T. 16 N., R. 4 W., in SE. angle of crossroads, in elm tree; copper nail-----	570. 62
Springfield, 5.0 mi. E. thence 1.7 mi. N. from, 2.6 mi. by rd. S. of Riverton, S. of center of sec. 21, T. 16 N., R. 4 W., on W. side of church, in brick foundation; aluminum tablet stamped "1905 576 Adj"-----	576. 261
Riverton, 1.6 mi. SW. of, near SW. cor. sec. 16, T. 16 N., R. 4 W., at SW. corner of Camp Butler National Cemetery, on brick wall; chiseled mark (recovered in 1906)-----	565. 07
Riverton, at SE. corner of intersection of Washington and Fourth Streets, in root of tree; copper nail-----	547. 49
Riverton, on S. side of opera house, in SE. corner of stone threshold; aluminum tablet stamped "1905 553 Adj" (recovered by U. S. C. & G. S. in 1933)-----	552. 594
Spaulding, at NW. corner of junction of rd. W., 200 ft. N. of Illinois Central R. R., in oak tree; copper nail-----	578. 07
Spaulding, 1.0 mi. N. of, near E $\frac{1}{4}$ cor. sec. 33, T. 17 N., R. 4 W., 255 ft. S. and 40 ft. W. from T-junction of E.-W. rd., in root of oak tree; copper nail-----	570. 10
Spaulding, 1.0 mi. N. thence 0.8 mi. W. from, 0.3 mi. W. of center of sec. 33, T. 17 N., R. 4 W., at bridge over fork of Wolf Creek, in SW. corner of E. abutment; aluminum tablet stamped "1905 535 Adj" (not recovered in 1925)-----	528. 176
Spaulding, 1.0 mi. N. thence 1.3 mi. W. from, 2.0 mi. E. thence 1.0 mi. S. from Sherman, near center of SE $\frac{1}{4}$ sec. 32, T. 17 N., R. 4 W., in NE. angle of rd. junction, in root of hickory tree; copper nail-----	572. 13
Sherman, 2.0 mi. E. thence 1.0 mi. N. from, 0.25 mi. E. of center of sec. 20, T. 17 N., R. 4 W., 100 ft. N. of crossroads; on E. side of rd., in root of locust tree; copper nail-----	573. 70
Sherman, 2.0 mi. E. thence 1.0 mi. N. from, 1.3 mi. in air line SE. of Selbytown, 0.8 mi. W. and 3.0 mi. S. from Williamsville, 0.25 mi. E. of center of sec. 20, T. 17 N., R. 4 W., on W. side of Locust Lane School, in brick foundation; aluminum tablet stamped "1905 578 Adj" (recovered in 1925)-----	578. 154
Williamsville, 0.5 mi. W. thence 2.5 mi. S. from, at cor. secs. 16, 17, 20, and 21, T. 17 N., R. 4 W., on stone marking section corner; chiseled square-----	584. 89
Williamsville, 0.5 mi. W. thence 1.5 mi. S. from, near NW. cor. sec. 16, T. 17 N., R. 4 W., in SE. angle of crossroads, in root of maple tree; copper nail-----	581. 74
Williamsville, at Praters Bank, in E. wall; aluminum tablet stamped "1905 606 Adj" (recovered in 1909)-----	605. 419
Williamsville, 0.5 mi. N. thence 4.0 mi. W. from, 1.7 mi. N. thence 2.8 mi. E. from Cantrall, near S $\frac{1}{4}$ cor. sec. 35, T. 18 N., R. 5 W., on N. side of rd., on W. side of residence of Fred Van Manners, in foundation wall; aluminum tablet stamped "1905 591 Adj"-----	591. 163
Cantrall, 1.7 mi. N. thence 1.0 mi. E. from, near S. cor. secs. 33 and 34, T. 18 N., R. 5 W., on N. side of rd., in root of walnut tree; copper nail-----	608. 59
Cantrall, 1.7 mi. N. of, near SW. cor. sec. 33, T. 18 N., R. 5 W., in NE. angle of crossroads, in root of willow tree; copper nail-----	588. 75

2. From point 1 mile south and 1.3 miles west from Athens along roads east and north to Athens (by Henry Bücher in 1906)

[Continued from Tallula quadrangle, line 2]

Athens, 1.0 mi. S. of, 0.25 mi. E. of SW. cor. sec. 2, T. 17 N., R. 6 W., 400 ft. E. of T-junction of N.-S. rd., on E. side of rd., in knob 1 ft. above ground on W. side of 24-in. sycamore tree; nail-----

Feet
603. 15

3. From point 3 miles east of Farmingdale east and southeast along Baltimore & Ohio Railroad to Springfield (by Henry Bücher in 1906)

[Continued from Tallula quadrangle, line 3]

Bradfordton, at sta. platform; top of rail-----
Bradfordton, in SW. angle of crossing of Beardstown rd., in field, in root on E. side of 24-in. sycamore tree; nail-----
Bradfordton, 1.0 mi. E. of, 4.4 mi. NW. of Springfield, on E. side of N.-S. rd., 110 ft. N. of track, in field, in root on E. side of 12-in. tree; nail-----
Springfield, 1.3 mi. NW. of post office, in front of Springfield Mattress Factory, at NE. corner of crossing, in root on SW. side of large oak tree; nail-----

591. 4
591. 61
593. 53
554. 96

4. From Springfield generally northeast along streets, Wabash Railway, and roads to point 1.3 miles east of Riverton, thence south 1.3 miles and east 1.1 miles (by E. E. Fletcher in 1908)

Riverton, 1.3 mi. E. thence 1.8 mi. SE. from, W. of center of sec. 23, T. 16 N., R. 4 W., at intersection of N.-S. quarter-section line, in concrete post; aluminum tablet-----

578. 300

[Continued in Cornland quadrangle, line 1]

5. From point 2 miles east of Rochester west along road 1 mile (by E. O. Brooks in 1922)

[Continued from Taylorville quadrangle, line 5]

Rochester, 1.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 14, T. 15 N., R. 4 W., in SE. angle of junction of T-rd. S., in NW. corner of yard of residence, in root on NW. side of 18-in. maple tree; copper nail and washer-----

577. 08

[Continued in Divernon quadrangle, line 9]

6. From point 7.8 miles east of Springfield along roads west 0.1 mile, thence generally south and east to point 2 miles east and 1 mile north from Rochester (by E. O. Brooks in 1922)

[A jog from Cornland quadrangle, line 2]

Springfield, 7.7 mi. E. of, near NE. cor. sec. 35, T. 16 N., R. 4 W., 35 ft. S. and 30 ft. W. from junction of T-rd. S., in woods, in root on E. side of 12-in. hickory tree; copper nail and washer-----

570. 17

Springfield, 7.7 mi. E. thence 1.4 mi. by rd. S. of, near S $\frac{1}{4}$ cor. sec. 35, T. 16 N., R. 4 W., in NW. angle of junction of T-rd. W., in SE. corner of yard of Fork Prairie Church, in root on W. side of 24-in. poplar tree; copper nail and washer-----

577. 36

Springfield, 7.7 mi. E. thence 2.3 mi. S. from, 1.8 mi. N. and 1.0 mi. E. from Rochester, 0.25 mi. S. of center of sec. 2, T. 15 N., R. 4 W., 35 ft. S. and 25 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "23 EB 1922"-----

577. 381

Reference mark, 25 ft. N. of tablet, in center of top of S. concrete head wall of culvert under rd. W.; chiseled square-----

577. 16

[Continued in Cornland quadrangle, line 2]

7. From point 3.5 miles south and 1.7 miles east from Springfield generally north and west along roads, Illinois Central Railroad, and streets to Springfield post office (by E. O. Brooks in 1922)

[Continued from Divernon quadrangle, line 6]

Springfield, 3.0 mi. S. thence 1.7 mi. E. from, 0.3 mi. W. of NE. cor. sec. 14, T. 15 N., R. 5 W., 320 ft. W of T-junction of E.-W. rd., on N. side of rd., in root on N. side of large double locust tree; copper nail and washer-----	Feet 581. 73
Springfield, 3.0 mi. S. thence 0.9 mi. W. from, near NW. cor. sec. 14, T. 15 N., R. 5 W., 200 ft. W. of junction of T-rd. N., 25 ft. S. and 30 ft. E. from crossing of Illinois Central R. R., at E. right-of-way fence line, 10 ft. S. of fence corner, at property line post, in concrete post; aluminum tablet stamped "1922 596"-----	595. 848
Springfield, 1.7 mi. S. thence 1.0 mi. E. from, about 250 ft. W. of center of SW $\frac{1}{4}$ sec. 2, T. 15 N., R. 5 W., 140 ft. E. of crossing of I. C. R. R. and E.-W. rd., on top of S. head wall of concrete culvert; chiseled square (recovered in 1925)-----	587. 77
Springfield, at intersection of South Nineteenth and East Edwards Streets, 30 ft. S. and 65 ft. E. from East Edwards Street crossing of I. C. and B. & O. R. Rs., 3 ft. N. of sidewalk, in root 3 in. underground on SW. side of 15-in. poplar tree; copper nail and washer-----	598. 83
Springfield, 180 ft. NW. of crossing of B. & O. and I. C. R. Rs. (SW. leg and near SE. corner of wye around interlocking tower), on SW. corner of concrete pedestal of semaphore (B. & O. R. R. sta. 9571+25); chiseled square (B. & O. R. R. B. M.; recovered in 1925)-----	601. 25
Springfield, near NE. corner of I. C. R. R. sta. (used also by B. & O. R. R.), on S. side of track, on W. side of street, on NE. corner of sta. platform; chiseled square (B. & O. R. R. B. M.)-----	598. 91
8. From Springfield post office west 2.2 miles, thence alternately north and east around north part of city to East Sangamon Avenue crossing of Chicago & Alton Railroad, thence south and east to Clear Lake Avenue, thence west 0.9 mile (by S. R. Archer in 1925)	
Springfield, at NW. corner of intersection of Monroe and South Second Streets, at S. entrance to Armory, on top of W. end of lowest step; chiseled square (recovered by U. S. C. & G. S. in 1933)-----	582. 040
Springfield, at NE. corner of intersection of West Monroe and South Walnut Streets, at SW. corner of store building owned by Mrs. William Bailey, on W. side of corner entrance, on N. end of concrete step; chiseled square-----	599. 47
Springfield, at SE. corner of intersection of West Monroe Street and Park Avenue, opposite SW. corner of Sacred Heart Academy grounds, 35 ft. E. of Park Avenue, 10 ft. E. of end of pavement, 6 ft. N. and 15 ft. E. from fire hydrant, on top of concrete curb; chiseled square-----	593. 50
Springfield, 18 ft. S. and 40 ft. E. from intersection of West Washington Street and Amos Avenue, 10 ft. E. of fire hydrant, on concrete curb; chiseled square-----	596. 98
Springfield, on S. side of West Washington Street, 300 ft. W. of crossing of Chicago, Peoria & St. Louis Ry., in front of residence of Tony Kurtz, 25 ft. E. of driveway, in concrete post; standard tablet stamped "Prim Trav Sta No 41 F 1925" (Springfield Sanitary Dist. P. B. M. 4)-----	564. 768

	Feet
Springfield, 2.2 mi. W. thence 0.6 mi. N. from post office, 200 ft. NW. of top of hill, on W. side of rd., in front of Jones property, 8 ft. S. of driveway, in concrete post; standard tablet stamped "Prim Trav Sta No 42 F 1925" (Springfield Sanitary Dist. P. B. M. 5)-----	570. 497
Reference mark, in SE. corner of intersection of Beardstown rd., in fence corner, in root on E. side of 24-in. elm tree; copper nail and washer-----	590. 38
Springfield, 2.2 mi. W. thence 1.3 mi. N. from, about 210 ft. W. of junction of rd. SE., 30 ft. SE. of SE. corner of residence on Rush Farm, on N. side of private lane, at fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 43 F 1925" (Springfield Sanitary Dist. P. B. M. 6)-----	566. 871
Reference mark, 230 ft. E. of tablet, in S. corner of rd. junction, at fence corner, in root on NE. side of 30-in. oak tree; copper nail and washer-----	555. 17
Springfield, 40 ft. S. and 95 ft. E. from crossing of B. & O. R. R. and West North Grand Avenue, 20 ft. S. and 20 ft. E. from fence corner, in root on NW. side of 30-in. oak tree; copper nail and washer-----	545. 42
Springfield, in NE. corner of intersection of West North Grand and North Lincoln Avenues, at SW. corner of Camp Lincoln Military Camp, in root on SW. side of 12-in. maple tree; copper nail and washer-----	587. 41
Springfield, 300 ft. NE. of No. 12 Coal Mine, 300 ft. E. of residence of W. M. Sielken, at W. entrance to Camp Lincoln, on E. side of gate, at N. end of lane, in concrete post; standard tablet stamped "Prim Trav Sta No 44 F 1925" (Springfield Sanitary Dist. P. B. M. 7)-----	582. 485
Springfield, at SE. corner of intersection of North Grand Avenue and North Walnut Street, on curb; chiseled square-----	586. 78
Springfield, on W. side of North Walnut Street, at top of Spring Creek hill, on W. side of Oak Ridge Cemetery, 14 ft. S. of voting booth, 175 ft. N. of residence of Fred Degner, 55 ft. N. of tenant dwelling, in concrete post; standard tablet stamped "Prim Trav Sta No 45 F 1925" (Springfield Sanitary Dist. P. B. M. 8)-----	583. 740
Reference mark, 690 ft. S. of tablet, on top of W. head wall of concrete culvert; chiseled square-----	564. 28
Springfield, on North Walnut Street, at NW. corner of concrete bridge over Spring Creek, on top of bridge end of wing wall; chiseled square-----	535. 61
Springfield, 65 ft. S. and 25 ft. W. from intersection of Sangamon Avenue and North First Street, 65 ft. S. of NE. corner of Calvary Cemetery, in concrete post; standard tablet stamped "Prim Trav Sta No 46 F 1925" (Springfield Sanitary Dist. P. B. M. 9)-----	568. 629
Reference mark, 95 ft. N. and 70 ft. E. from tablet, 30 ft. N. and 45 ft. E. from street intersection, in root on SW. side of 30-in. oak tree; copper nail and washer-----	569. 33
Springfield, at NW. corner of intersection of East Sangamon Avenue and North Eighth Street, opposite SW. corner of State Fair Grounds, on top of NE. corner of square concrete foundation of electric light pedestal; chiseled square-----	589. 85
Springfield, at SW. corner of intersection of East Sangamon Avenue and Peoria rd., opposite SE. corner of State Fair Grounds, at NE. corner of Standard Oil service sta., at junction of concrete and stone curb, on top of end of concrete curb; chiseled square-----	588. 71

844 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
Springfield, just S. of Ridgely sta. on C. & A. R. R., at crossing of R. R. and East Sangamon Avenue; top of E. rail	594. 3
Springfield, 0.8 mi. E. of Ridgely sta., 75 ft. S. of East Sangamon Avenue, on W. side of private rd. S., at E. right-of-way line of C. & A. R. R., at fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 47 F 1925" (Springfield Sanitary Dist. P. B. M. 11)	590. 239
Reference mark, 65 ft. N. and 215 ft. W. from tablet, 215 ft. W. of R. R. crossing, on top of S. head wall of concrete culvert; chiseled square	585. 39
Springfield, 0.8 mi. E. thence 0.5 mi. S. from Ridgely sta., 0.25 mi. E. of center of sec. 33, T. 16 N., R. 5 W., about 0.2 mi. S. of farmhouse, 35 ft. N. of fence corner, in root on SE. side of 8-in. hedge tree; copper nail and washer	594. 42
Springfield, 40 ft. N. and 120 ft. W. from intersection of East North Grand Avenue and Twenty-third Street, at porch of residence of Gottlob Books, on top of W. end of lowest concrete step; chiseled square	598. 62
Springfield, 20 ft. N. and 25 ft. W. from intersection of East North Grand Avenue and Wesley Street, in concrete post; standard tablet stamped "Prim Trav Sta No 29 F 1925" (Springfield Sanitary Dist. P. B. M. 12)	597. 400
Springfield, in SE. corner of intersection of Wesley Street and Enos Avenue, in root on SE. side of 24-in. poplar tree; copper nail and washer	596. 04
Springfield, in NE. corner of intersection of Wesley Street and Clear Lake Avenue, on top of N. end of E. head wall of concrete culvert; chiseled square	595. 83
Springfield, at SW. corner of intersection of Clear Lake Avenue and Wheeler Avenue, 4 ft. S. of curb on S. side of Clear Lake Avenue, on top of curb on W. side of Wheeler Avenue; chiseled square	595. 64
9. From intersection of Clear Lake Avenue and Wesley Street in Springfield south and west along streets to intersection of U. S. Highway 36 and State Highway 4, thence north to Washington Street (by S. R. Archer in 1925)	
Springfield, 25 ft. N. and 30 ft. W. from intersection of Cook and Eastdale Streets, in concrete post; standard tablet stamped "Prim Trav Sta No 30 F 1925" (Springfield Sanitary Dist. P. B. M. 13)	577. 326
Springfield, 30 ft. S. and 25 ft. E. from crossing of Illinois Traction Line and B. & O. R. R., 125 ft. N. of East South Grand Avenue, at W. entrance of sub-sta. and interlocking tower, on top of N. end of doorsill; chiseled square	596. 39
Springfield, at NW. corner of Ash Street and Macadam Road, 2 ft. S. and 2 ft. W. from brick corner post, in concrete post; standard tablet stamped "Prim Trav Sta No 34 F 1925" (Springfield Sanitary Dist. P. B. M. 14)	590. 588
Springfield, 10 ft. N. and 20 ft. E. from intersection of Taylor and Cornell Streets, on N. side of private rd. E., in root on W. side of 15-in. hickory tree; copper nail and washer	588. 34
Springfield, 70 ft. E. of intersection of Cornell and Eighteenth Streets, on S. side of Eighteenth Street, in notch in root on NE. side of 48-in. elm tree; spike (Springfield Sanitary Dist. T. B. M.)	599. 38

	Feet
Springfield, at intersection of Sixteenth Street, Georgia Avenue, and Fox Road, at N. corner between Fox' Road and Sixteenth Street, in concrete post; standard tablet stamped "Prim Trav Sta No 35 F 1925" (Springfield Sanitary Dist. P. B. M. 15) -----	598. 954
Springfield, 90 ft. N. and 20 ft. E. from intersection of Lenox Avenue and Eleventh Street, in root on SE. side of 12-in. poplar tree; copper nail and washer-----	594. 69
Springfield, 20 ft. S. and 50 ft. W. from intersection of Eleventh Street and Stanford Avenue, inside field fence, in root on N. side of second poplar tree, 8 in. in diameter; copper nail and washer-----	598. 53
Springfield, 45 ft. S. and 35 ft. W. from intersection of Sixth Street and Stanford Avenue, inside field fence, in root on N. side of 30-in. boxelder tree; copper nail and washer-----	603. 79
Springfield, at Illinois Traction Line viaduct over C. & A. R. R., at W. right-of-way line of R. R., at W. end of steel girder section of viaduct, on top of NE. corner of N. concrete base of steel pillar; chiseled square -----	606. 05
Springfield, at intersection of South West Grand, Wabash, and Urban Avenues, at W. corner between Wabash and Urban Avenues, on top of angular corner of S. head wall of concrete culvert; chiseled square-----	608. 89
Springfield, 50 ft. E. of intersection of Wabash and Park Avenues, on top of E. end of S. head wall of concrete culvert; chiseled square ⁴⁶ -----	606. 48
Springfield, at NE. corner of triangular plot between U. S. Highway 36 and State Highway 4, in concrete post; standard tablet stamped "Prim Trav Sta No 36 F 1925" (Springfield Sanitary Dist. P. B. M. 3) -----	594. 002
Springfield, 0.6 mi. N. of intersection of U. S. Highway 36 and State Highway 4, 260 ft. N. of SE. cor. sec. 6, T. 15 N., R. 5 W., on top of N. end of W. head wall of concrete culvert; chiseled square-----	570. 84
Springfield, in SW. part of, about 800 ft. S. of W $\frac{1}{4}$ cor. sec. 5, T. 15 N., R. 5 W., 140 ft. S. of Maple Street, on top of E. head wall of concrete culvert; chiseled square-----	581. 72
Springfield, opposite junction of rd. NE. to Country Club, on W. side of rd., at S. side of entrance to Culver Farm, on top of E. end of S. stone head wall of culvert under driveway; chiseled square-----	586. 10
Springfield, 20 ft. S. and 20 ft. E. from junction of N.-S. rd. and Jacksonville rd., at W. entrance to Washington Park, 5 ft. S. of S. brick post, in root on W. side of 12-in. maple tree; copper nail and washer-----	597. 90
Springfield, 25 ft. N. and 25 ft. E. from intersection of Lawrence Street and N.-S. rd., on top 2 ft. E. of W. end of concrete wall on N. side of Lawrence Street; chiseled square-----	596. 94
10. From west entrance to Washington Park at Springfield southeast and south along road 0.4 mile (by S. R. Archer in 1925; spur line leveled twice)	
Springfield, in W. part, near S. side of Washington Park, on S. E.-W. driveway, at upper bridge over Spring Creek, on top of N. parapet of E. concrete abutment; chiseled square -----	560. 60

⁴⁶ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 13 1933," elevation 605.160 ft.

Springfield, at W. end of West South Grand Avenue and rd. S. to Country Club, 55 ft. S. of West Grand Avenue, on W. side of rd. S., 22 ft. E. of hedge fence, 50 ft. SE. of 16-in. hickory tree, 6 ft. W. of 6-in. wild-cherry tree, in concrete post; standard tablet stamped "Prim Trav Sta No 40 F 1925" (Springfield Sanitary Dist. P. B. M. 1) -----	Feet 585. 550
11. From junction of north-south road and Maple Street in southwest part of Springfield east along Maple Street to South West Grand Avenue, thence south 0.8 mile (by S. R. Archer in 1925)	
Springfield, at intersection of Bates Avenue and Maple Street, on S. side of Maple Street, 14 ft. E. of fence corner, on E. side of gate to field, in root on SW. side of 12-in. elm tree; copper nail and washer-----	596. 15
Springfield, 30 ft. S. and 30 ft. W. from intersection of South West Grand Avenue and Maple Street, 2 ft. E. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 39 F 1925" (Springfield Sanitary Dist. P. B. M. 2) -----	596. 911
Springfield, 15 ft. S. and 35 ft. E. from intersection of South West Grand and Lenox Avenues, in NW. corner of yard of Maple Meadow Inn, in root on W. side of 30-in. maple tree; copper nail and washer-----	600. 50
12. From intersection of East Sangamon Avenue and North Eighth Street in Springfield generally northeast to road junction 0.9 mile west of Sherman, thence west and north to Athens (by S. R. Archer in 1925)	
Ridgely, 0.6 mi. W. thence 1.0 mi. N. from R. R. sta., near quarter corner between secs. 10 and 15, T. 16 N., R. 5 W., on W. side of rd., 5 ft. N. of driveway to Watt residence, 15 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 37 F 1925" (Springfield Sanitary Dist. P. B. M. 10) -----	527. 235
Ridgely, 0.8 mi. N. of, about 320 ft. N. and 800 ft. W. from center of NW $\frac{1}{4}$ sec. 14, T. 16 N., R. 5 W., 0.2 mi. SW. of subway under Chicago, Peoria & St. Louis Ry., 320 ft. N. of junction of NE-SW. rd., in center of top of E. head wall of concrete culvert; chiseled square-----	535. 19
Ridgely, 1.0 mi. N. of, 310 ft. NE. of subway under R. R., 240 ft. SW. of junction of rd. N., on top of N end of E head wall of concrete bridge; chiseled square (Springfield Sanitary Dist. T. B. M.) -----	533. 59
Ridgely, 1.0 mi. N. thence 0.7 mi. NE. from, 0.25 mi. E. of center of sec. 11, T. 16 N., R. 5 W., 275 ft. NE. of crossroads, 350 ft. SW. of angle in rd., on top of S. end of W. head wall of concrete culvert; chiseled square -----	575. 09
Ridgely, 1.0 mi. N. thence 1.4 mi. NE. of, 0.9 mi. W. thence 2.5 mi. S. from, about 630 ft. E. of W. cor. secs. 11 and 12, T. 16 N., R. 5 W., 25 ft. S. and 10 ft. E. from intersection of highway tangents, at NE. corner of yard of residence of John Burte, in line with E. side of residence, on W. side of driveway, 5 ft. E. of walk leading to front porch, in concrete post; standard tablet stamped "Prim Trav Sta No 27 F 1925" -----	585. 031
Reference mark, on W. side of highway, at main entrance to Sand Hill School, on top of NE. corner of N. end of doorsill; chiseled square-----	587. 20
Sherman, 0.9 mi. W. thence 1.9 mi. S. from, in NW $\frac{1}{4}$ sec. 1, T. 16 N., R. 5 W., 375 ft. SE. of bridge over Sangamon River, at concrete bridge over overflow, on top of E. parapet of N. abutment; chiseled square -----	527. 69

	Feet
Sherman, 0.9 mi. W. thence 1.0 mi. S. from, near E $\frac{1}{4}$ cor. sec. 35, T. 17 N., R. 5 W., 120 ft. N. of private rd. W., on top of W. head wall of concrete culvert; chiseled square-----	567.09
Sherman, 0.9 mi. W. of, 1.0 mi. E. of Andrew, near quarter corner between secs. 25 and 26, T. 17 N., R. 5 W., in NW. angle of triangle at intersection of State Highway 124 and U. S. Highway 66, at Tipton School, in NW. corner of schoolyard, 6 ft. SE. of corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 13 F 1925"-----	592. 533
Reference mark, 140 ft. S. of tablet, in line with N. side of schoolhouse, in yard, on N. side of walk, in root on N. side of 24-in. maple tree; copper nail and washer-----	591. 55
Andrew, at crossing of C. P. & St. L. Ry.; top of W. rail-----	584. 5
Andrew, near sta., 140 ft. W. of R. R. track, on N. side of rd., opposite and in line with E. side of store, on E. side of private rd. N. to slaughterhouse, on top of E. concrete head wall of drain under private rd.; chiseled square-----	582. 04
Andrew, 0.8 mi. W. of, 0.32 mi. W. of center of sec. 27, T. 17 N., R. 5 W., 110 ft. W. of top of hill, on N. side of rd., 13 ft. W. of SW. corner of yard of residence of J. M. Lloyd, inside fence, in root on S. side of 36-in. oak tree; copper nail and washer-----	575. 22
Andrew, 1.5 mi. W. of, near center of sec. 28, T. 17 N., R. 5 W., 35 ft. N. of junction of T-rd. N., on W. side of rd., 13 ft. N. of fence corner, in root on SE. side of 36-in. oak tree; copper nail and washer-----	584. 74
Andrew, 2.0 mi. W. of, 5.0 mi. S. thence 2.6 mi. E. from Athens, near E $\frac{1}{4}$ cor. sec. 29, T. 17 N., R. 5 W., 35 ft. S. and 40 ft. E. from crossroads, at Wiggins School, in NW. corner of yard, in concrete post; standard tablet stamped "Prim Trav Sta No 14 F 1925"-----	592. 286
Athens, 5.0 mi. S. thence 1.8 mi. E. from, 0.25 mi. W. of center of sec. 29, T. 17 N., R. 5 W., 100 ft. W. of junction of T-rd. S., on W. bank of Cantrall Creek, on N. side of rd., at fence line, in root on SW. side of 24-in. elm tree; copper nail and washer-----	533. 08
Athens, 5.0 mi. S. thence 1.3 mi. E. from, 0.25 mi. E. of center of sec. 30, T. 17 N., R. 5 W., 170 ft. E. of junction of T-rd. N., 115 ft. W. of house on S. side of rd., in root on NW. side of 30-in. oak tree; copper nail and washer-----	590. 64
Athens, 5.0 mi. S. thence 0.8 mi. E. from, 0.25 mi. W. of center of sec. 30, T. 17 N., R. 5 W., on W. side of rd., at jog S., 15 ft. S. of center line of rd. E., in root on SE. side of 30-in. oak tree; copper nail and washer-----	594. 58
Athens, 5.0 mi. S. thence 0.4 mi. E. from, near E $\frac{1}{4}$ cor. sec. 25, T. 17 N., R. 6 W., on top of N. parapet of E. abutment of concrete bridge; chiseled square-----	551. 00
Athens, 5.0 mi. S. of, near center of sec. 25, T. 17 N., R. 6 W., 60 ft. E. of T-junction of N.-S. rd., on N. side of rd., inside fence, in root on W. side of 24-in. boxelder tree; copper nail and washer-----	593. 14
Athens, 4.0 mi. S. of, near center of sec. 24, T. 17 N., R. 6 W., 35 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 15 F 1925"-----	597. 700

	Feet
Athens, 3.3 mi. S. of, about 800 ft. N. of S $\frac{1}{4}$ cor. sec. 13, T. 17 N., R. 6 W., 50 ft. N. of bridge over creek, on W. side of rd., at fence line, in root 8 in. underground on S. side of 14-in. walnut tree; copper nail and washer-----	555.84
Athens, 2.8 mi. S. of, 0.25 mi. W. of center of sec. 13, T. 17 N., R. 6 W., in SW. angle of crossroads, at fence corner, in top of bent trunk of 8-in. hedge tree, 2 ft. above ground; copper nail and washer-----	604.02
Athens, 1.8 mi. S. of, 0.25 mi. W. of center of sec. 12, T. 17 N., R. 6 W., 20 ft. S. and 40 ft. W. from crossroads, 18 ft. W. of fence corner, in root on N. side of 10-in. hickory tree; copper nail and washer-----	596.57
Athens, 1.3 mi. S. of, 0.25 mi. E. of NW. cor. sec. 12, T. 17 N., R. 6 W., 35 ft. S. and 50 ft. W. from junction of T-rd. W., in yard of residence, in root on N. side of 12-in. poplar tree; copper nail and washer-----	599.77
Athens, 0.7 mi. S. of, 0.25 mi. W. of center of sec. 1, T. 17 N., R. 6 W., 45 ft. S. of culvert over Town Branch, on E. side of angle in rd., in root on NW. side of 24-in. elm tree; copper nail and washer-----	563.92
13. From road junction 0.9 mile west of Sherman along roads alternately east and south to Riverton (by S. R. Archer in 1925)	
Sherman, 100 ft. W. of south-bound track of C. & A. R. R., 170 ft. E. of highway, 30 ft. W. of center line of rd. N., on S. side of rd., inside sidewalk at W. right-of-way line, in root 6 in. underground and 1 ft. from S. side of 24-in. poplar tree; copper nail and washer ⁴⁷ -----	576.75
Sherman, at crossing of C. & A. R. R. south-bound track; top of rail-----	580.2
Sherman, at crossing of C. & A. R. R. north-bound track; top of rail-----	576.3
Sherman, 0.8 mi. E. of, about 800 ft. W. of E $\frac{1}{4}$ cor. sec. 30, T. 17 N., R. 4 W., on W. bank of Fancy Creek, on N. side of rd., in line with W. end of bridge, in root on S. side of 24-in. maple tree; copper nail and washer-----	527.60
Sherman, 1.5 mi. E. of, 0.25 mi. W. of center of sec. 29, T. 17 N., R. 4 W., 20 ft. S. and 15 ft. E. from junction of T-rd. N., in root on S. side of 30-in oak tree; copper nail and washer-----	577.79
Sherman, 2.0 mi. E. of, 0.25 mi. E. of center of sec. 29, T. 17 N., R. 4 W., 20 ft. S. and 50 ft. E. from crossroads, in root on W. side of twin elm tree; copper nail and washer-----	578.78
Sherman, 2.0 mi. E. thence 1.0 mi. S. from, 1.0 mi. N. thence 1.2 mi. W. from Spaulding, 0.25 mi. E. of center of sec. 32, T. 17 N., R. 4 W., 25 ft. N. and 20 ft. E. from T-junction of E.-W. rd., 3 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 12 F 1925"-----	571.592
Spaulding, 1.0 mi. N. thence 0.8 mi. W. from, 0.25 mi. W. of center of sec. 33, T. 17 N., R. 4 W., at bridge over W. fork of Wolf Creek, on top of S. end of bridge seat of E. abutment; chiseled square-----	528.15
Spaulding, 1.0 mi. N. of, near W $\frac{1}{4}$ cor. sec. 34, T. 17 N., R. 4 W., 260 ft. S. of junction of T-rd. S., 40 ft. E. of rd., in root on W. side of 36-in. forked cherry tree; copper nail and washer-----	573.30
Spaulding, 185 ft. N. of I. C. R. R. track, in NE. angle of junction of street W., at entrance at SW. corner of store building owned by John Hitchell, on top of NW. end of doorsill; chiseled square-----	580.72

⁴⁷ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 36 1934," elevation 576.127 ft.

Spaulding, 1.0 mi. S. of, in NE. part of Riverton, 60 ft. N. and 25 ft. E. from street intersection, 25 ft. N. of SW. corner of yard of German Lutheran Church, inside fence, on S. side of walk, in root on SE. side of 12-in. maple tree; copper nail and washer (recovered in 1940)-----

Feet
581.42

14. From crossroads 2 miles east of Sherman along road north 1 mile (by S. R. Archer in 1925)

Sherman, 2.0 mi. E. thence 0.5 mi. N. from, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 20, T. 17 N., R. 4 W., 45 ft. W. of crossroads, on N. side of rd., in root of 36-in. elm tree; copper nail and washer-----

582.95

15. From point 2.7 miles north of Athens south along road to Athens (by S. R. Archer in 1932)

[Continued from Mason City quadrangle, line 8]

Athens, 2.0 mi. N. of, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 25, T. 18 N., R. 6 W., in SW. angle of junction of T-rd. S., in root on WNW. side of 30-in. hackberry tree; copper nail and washer-----

616.44

Athens, 0.9 mi. N. of, near center of NW $\frac{1}{4}$ sec. 36, T. 18 N., R. 6 W., on S. side of rd. at right angle, in field, 20 ft. E. of N.-S. fence, in root on ENE. side of 48-in. oak tree; copper nail and washer-----

605.30

16. From point 0.6 mile west and 0.2 mile north from Fancy Prairie along roads south 0.2 mile, east 1.7 miles, and north 0.2 mile (by S. R. Archer in 1932)

[A jog from Mason City quadrangle, line 9]

Fancy Prairie, 0.6 mi. W. of, near center of sec. 24, T. 18 N., R. 5 W., 225 ft. E. of T-junction of E.-W. rd., on top of N. head wall of concrete culvert; chiseled square-----

613.15

Fancy Prairie, 120 ft. W. of crossing of C. & A. R. R., on N. side of street, at SE. corner of brick store building, on top of E. end of stone window sill; chiseled square⁴⁸-----

621.85

Fancy Prairie, 1.1 mi. E. of, near E $\frac{1}{4}$ cor. sec. 19, T. 18 N., R. 4 W., 100 ft. N. of junction of Logan-Menard county-line rd., on W. side of rd., in yard of farmhouse, in root on SE. side of 24-in. chestnut tree, southernmost tree of row; copper nail and washer-----

613.68

[Continued in Mason City quadrangle, line 9]

17. From point 2.1 miles east and 0.5 mile north from Spaulding along roads alternately west and south by way of Spaulding to northeast part of Riverton (by W. C. Elledge in 1940)

[Continued from Cornland quadrangle, line 3]

Spaulding, 2.0 mi. E. of, 0.7 mi. E. thence 0.5 mi. S. from Barclay, near E $\frac{1}{4}$ cor. sec. 2, T. 16 N., R. 4 W., about 300 ft. W. of T-rd. N., on S. side of rd., in root on NE. side of 40-in. elm tree; copper nail and washer-----

577.70

Spaulding, 1.0 mi. E. of, near quarter corner between secs. 2 and 3, T. 16 N., R. 4 W., on S. side of rd., in fence corner, in root on N. side of 15-in. hedge tree; copper nail and washer-----

575.97

Spaulding, about 200 ft. E. of I. C. R. R. sta., in SW. angle of R. R. crossing, on SE. bolt of warning signal base; chiseled cross-----

578.09

⁴⁸ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "U 36 1934," elevation 617.774 ft.

TALLULA QUADRANGLE
 [Latitude $39^{\circ}45'$ – $40^{\circ}00'$; longitude $89^{\circ}45'$ – $90^{\circ}00'$]
CASS, MENARD, MORGAN, AND SANGAMON COUNTIES

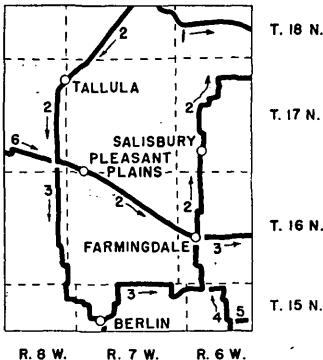


FIGURE 148.—Lines of leveling in Tallula quadrangle.

1. From point 0.9 mile southeast of Petersburg generally southeast along Chicago, Peoria & St. Louis Railway⁴⁹ to point 1.9 miles northwest of Athens (by R. C. Howard in 1905; double-rodded line)

[Continued from Petersburg quadrangle, line 1]

Tice, on N. side of schoolhouse, 12 ft. E. of NW. corner, in brick foundation; aluminum tablet stamped "1905 610 Adj" (recovered by U. S. C. & G. S. in 1934)

Feet
610.465

[Continued in Springfield quadrangle, line 1]

2. From point 0.6 mile west and 1 mile southwest from Petersburg southwest along Chicago & Alton Railroad to point 0.8 mile southwest of Tallula, thence south along road to Baltimore & Ohio Railroad, thence southeast to Farmingdale, thence alternately north and east along roads by way of Salisbury to point 1 mile south and 1.3 miles west from Athens (by Henry Bücher in 1906)

[Continued from Petersburg quadrangle, line 2]

Springfield, 0.6 mi. W. thence 2.5 mi. SW. from, near center of sec. 28, T. 18 N., R. 7 W., 0.7 mi. SW. of crossing of N-S. rd., at SW. corner of stone culvert, on top of coping stone; chiseled square

605.34

Springfield, 0.6 mi. W. thence 3.3 mi. mi. SW. from, 2.8 mi. NE. of Tallula, near NW. cor. sec. 33, T. 18 N., R. 7 W., 320 ft. SW. of crossing of E-W. rd., 10 ft. NE. of SW. corner of stone culvert, in NW. wall, in coping stone; aluminum tablet stamped "1905 587 Adj"

586.685

⁴⁹ Now the Chicago & Illinois Midland Ry.

	Feet
Tallula, 1.6 mi. NE. of, near S. side SW $\frac{1}{4}$ sec. 32, T. 18 N., R. 7 W., 0.6 mi. SW. of crossing of E.-W. rd., on top of SE. corner of small stone culvert; chiseled square.	591.41
Tallula, 0.9 mi. NE. of, in NE $\frac{1}{4}$ sec. 6, T. 18 N., R. 7 W., 320 ft. NE. of milepost "Chicago 194," at NE. corner of NW. wall of stone culvert, in first course of masonry below coping; aluminum tablet stamped "1905 596 Adj"	595.491
Tallula, at sta.; top of rail	622.7
Tallula, 0.4 mi. SW. of, in NE $\frac{1}{4}$ sec. 12, T. 17 N., R. 8 W., 200 ft. NE. of track, on top at SW. corner of stone culvert; chiseled square	618.10
Tallula, 0.8 mi. SW. of, S. of center of sec. 12, T. 17 N., R. 8 W., 350 ft. NE. of point where wagon rd. turns S. from track, 6 ft. SW. of NE. corner of stone culvert, on top of SE. wall; chiseled square	621.838
Tallula, 0.8 mi. SW. thence 0.8 mi. S. from, near center of sec. 13, T. 17 N., R. 8 W., in NE. angle of crossroads, in projecting root on S. side of Osage-orange tree; nail	619.88
Tallula, 0.8 mi. SW. thence 2.3 mi. S. from, at quarter corner between secs. 24 and 25, T. 17 N., R. 8 W., in center of crossroads, on stone marking quarter corner; chiseled square	628.76
Tallula, 0.8 mi. SW. thence 3.2 mi. S. from, about 500 ft. N. of S $\frac{1}{4}$ cor. sec. 25, T. 17 N., R. 8 W., on top of NE. abutment of small iron bridge; chiseled square	596.31
Tallula, 0.8 mi. SW. thence 3.3 mi. S. from, 1.5 mi. NW. thence 0.5 mi. N. from Pleasant Plains, near S $\frac{1}{4}$ cor. sec. 25, T. 17 N., R. 8 W., in NW. angle of crossroads, near SW. corner of Bethel Church Cemetery, 23 ft. N. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "1905 615 Adj" (recovered in 1928)	615.324
Pleasant Plains, at B. & O. R. R. sta., at E. end of rd. crossing; top of N. rail	616.2
Pleasant Plains, at N. front of Pleasant Plains State Bank, in top near W. end of water table; aluminum tablet stamped "1905 615 Adj"	615.292
Pleasant Plains, 1.9 mi. SE. of, 2.0 mi. NW. of Richland, in SE $\frac{1}{4}$ sec. 4, T. 16 N., R. 7 W., 520 ft. E. of crossing of N.-S. rd., in top of S. wall at SW. corner of stone culvert; aluminum tablet stamped "1905 591 Adj"	590.983
Richland, 1.2 mi. NW. of, in NW $\frac{1}{4}$ sec. 10, T. 16 N., R. 7 W., on top of SW. corner of stone culvert; chiseled square	610.38
Richland, at brick gasoline storage house of Farmers' Elevator Co., in S. wall, 18 in. E. of SW. corner and 26 in. above ground; aluminum tablet stamped "1905 612 Adj"	611.640
Richland, 2.1 mi. SE. of, 1.2 mi. NW. of Farmingdale, near NE. cor. sec. 24, T. 16 N., R. 7 W., at bridge over Prairie Creek, in top 15 ft. W. of E. end of N. wall of E. abutment; aluminum tablet stamped "1905 573 Adj"	572.946
Farmingdale, at sta., at end of rd. crossing; top of S. rail	590.7
Farmingdale, 1.4 mi. N. thence 0.3 mi. SE. from, 3.5 mi. S. of Salisbury, near center of NW $\frac{1}{4}$ sec. 17, T. 16 N., R. 6 W., on SW. side of rd., opposite rd. N., 18 in. N. of fence, 30 in. E. of fence corner; standard iron post with bronze cap stamped "1905 589 Adj"	589.122

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Salisbury, 2.3 mi. S. of, 0.25 mi. E. of SW. cor. sec. 5, T. 16 N., R. 6 W., 250 ft. N. of junction of T-rd. W., on E. side of rd., in front of house, in spreading root on W. side of 18-in. poplar tree; nail	Feet 587.03
Salisbury, 1.6 mi. S. of, in NW $\frac{1}{4}$ sec. 5, T. 16 N., R. 6 W., in SW. angle of crossroads; in root on E. side of 48-in. cottonwood tree; nail	595.70
Salisbury, 5 ft. N. of SE. corner of schoolhouse, in wall between stone foundation and brick upper wall; aluminum tablet stamped "1905 592 Adj"	591.436
Salisbury, 0.9 mi. N. of, 0.25 mi. E. of SW. cor. sec. 20, T. 17 N., R. 6 W., on Menard-Sangamon county line, 200 ft. W. of E. end of jog in rd., on N. side of rd., in root on W. side of 12-in. elm tree; nail	594.26
Salisbury, 1.9 mi. N. of, in NW $\frac{1}{4}$ sec. 20, T. 17 N., R. 6 W., 0.4 mi. N. of crossroads, on W. side of rd., in root on W. side of 24-in. elm tree; nail	598.03
Salisbury, 2.5 mi. N. of, near center of sec. 17, T. 17 N., R. 6 W., 30 ft. E. of junction of rd. E., on N. side of rd., 6 in. S. of fence; standard iron post with bronze cap stamped "1905 597 Adj"	596.965
Salisbury, 2.8 mi. N. and 0.8 mi. E. from, near S. side SW $\frac{1}{4}$ sec. 9, T. 17 N., R. 6 W., in NW. angle of right-angle turn N. in rd., in root on S. side of 24-in. walnut tree; nail	596.48
Salisbury, 3.8 mi. N. and 0.8 mi. E. from, 1.0 mi. S. thence 3.2 mi. W. from Athens, 0.25 mi. E. of NW. cor. sec. 9, T. 17 N., R. 6 W., 30 ft. E. of T-junction of E.-W. rd., on S. side of rd., in bank; standard iron post with bronze cap stamped "1905 573 Adj"	573.273
Sangamon River, under bridge; surface of water July 23, 1924	514.1
Athens, 1.0 mi. S. thence 2.3 mi. W. from, 200 ft. E. of E. end of bridge over Sangamon River, on NE. side of rd., in root on W. side of 12-in. elm tree; nail	511.42
Athens, 1.0 mi. S. thence 1.4 mi. W. from, near SW. cor. sec. 2, T. 17 N., R. 6 W., 100 ft. E. of junction of T-rd. N., on N. side of rd., in field, in root on E. side of 24-in. white-oak tree; nail	549.79

[Continued in Springfield quadrangle, line 2]

3. From crossing of Baltimore & Ohio Railroad at point 1.6 miles northwest of Pleasant Plains alternately south and east along roads to Berlin, thence north and east to Farmingdale, thence east 3 miles along Baltimore & Ohio Railroad (by Henry Bücher in 1906)

Pleasant Plains, 1.6 mi. NW. thence 0.3 mi. S. from, 0.25 mi. S. of center of sec. 36, T. 17 N., R. 8 W., in SW. angle of crossroads, in field, in root on E. side of 30-in. cottonwood tree; nail	621.82
Pleasant Plains, 1.6 mi. NW. thence 1.5 mi. S. from, near N $\frac{1}{4}$ cor. sec. 12, T. 16 N., R. 8 W., in SW. angle of junction of T-rd. W., 18 ft. W. of E. fence line, 15 in. N. of fence; standard iron post with bronze cap stamped "1905 618 Adj"	618.206
Pleasant Plains, 1.6 mi. NW. thence 3.5 mi. S. from, near S $\frac{1}{4}$ cor. sec. 13, T. 16 N., R. 8 W., in NE. angle of crossroads, in root on SE. side of 18-in. walnut tree; nail	631.34
Pleasant Plains, 1.6 mi. NW. thence 4.8 mi. S. from, 5.7 mi. by rd. NW. of Berlin, 0.25 mi. W. of SE. cor. sec. 24, T. 16 N., R. 8 W.,	

	Feet
on N. side of rd., opposite T-rd. S., on S. side of E.-W. fence, on E. side of N.-S. fence; standard iron post with bronze cap stamped "1905 630 Adj"-----	629. 821
Berlin, 4.7 mi. NW. of, 0.25 mi. W. of SE. cor. sec. 25, T. 16 N., R. 8 W., 140 ft. N. of T-junction of E.-W. rd., on E. side of rd., in root on S. side of 24-in. cottonwood tree; nail-----	627. 09
Berlin, 3.5 mi. NW. of, near SE. cor. sec. 36, T. 16 N., R. 8 W., at township line, in NW. angle of jog in rd., 60 ft. N. of S. fence line, 1 ft. E. of fence; standard iron post with bronze cap stamped "1905 609 Adj"-----	609. 256
Berlin, 2.1 mi. NW. of, 0.3 mi. S. of W $\frac{1}{4}$ cor. sec. 6, T. 15 N., R. 7 W., 150 ft. E. of rd. junction, on S. side of rd., in root on SE. side of 36-in. elm tree; nail-----	625. 43
Berlin, 1.6 mi. NW. of, 0.3 mi. S. of center of sec. 6, T. 15 N., R. 7 W., at T-junction of N.-S. rd., opposite rd. W., in root on W. side of pignut tree; nail-----	629. 50
Berlin, 0.6 mi. W. of, near center of SE $\frac{1}{4}$ sec. 7, T. 15 N., R. 7 W., 500 ft. N. of crossroads, on E. side of rd., in root on W. side of 24-in. tree; nail-----	645. 39
Berlin, on W. side of schoolhouse, 1 ft. N. of SW. corner, 6 in. below frame structure, in brick foundation; aluminum tablet stamped "1905 640 Adj" (recovered in 1921)-----	640. 069
Berlin, 0.8 mi. NE. of, near W $\frac{1}{4}$ cor. sec. 9, T. 15 N., R. 7 W., at junction of rd. N., 180 ft. SE. of rd., on E. side of line fence, in field, in root on E. side of walnut tree; nail-----	638. 10
Berlin, 1.5 mi. NE. of, N. of SW. cor. sec. 4, T. 15 N., R. 7 W., 300 ft. E. of jog E. in rd., on S. side of rd., in root of oak tree; nail-----	633. 96
Berlin, 2.8 mi. NE. of, 3.0 mi. S. thence 5.2 mi. by rd. W. from Farmingdale, 0.25 mi. W. of SE. cor. sec. 33, T. 16 N., R. 7 W., 410 ft. N. of iron bridge over Spring Creek, on W. side of rd., 20 ft. N. of fence along N. side of lawn, 17 in. E. of fence; standard iron post with bronze cap stamped "1905 587 Adj"-----	586. 896
Farmingdale, 3.0 mi. S. thence 2.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 36, T. 16 N., R. 7 W., at T-junction of N.-S. rd., on W. side of private rd. W., 45 ft. N. of stone in rd. marking township line, 2 ft. E. of old fence, 3 ft. S. of telephone pole; standard iron post with bronze cap stamped "1905 609 Adj"-----	609. 054
Farmingdale, 3.0 mi. S. thence 1.7 mi. W. from, 0.2 mi. W. of center of sec. 1, T. 15 N., R. 7 W., on S. side of rd., at junction of T-rd. S., on SW. corner of top of stone culvert; chiseled square-----	621. 68
Farmingdale, 3.0 mi. S. thence 0.9 mi. W. from, 0.3 mi. S. of NE. cor. sec. 1, T. 15 N., R. 7 W., in SW. angle of crossroads, in root on N. side of 12-in. hickory tree; nail-----	615. 25
Farmingdale, 3.0 mi. S. thence 0.6 mi. W. from, in NW $\frac{1}{4}$ sec. 6, T. 15 N., R. 6 W., at S. end of iron bridge over creek, on top of E. abutment; chiseled square-----	571. 48
Farmingdale, 3.0 mi. S. of, 0.5 mi. SW. thence 1.1 mi. W. from Riddle Hill, 0.3 mi. S. of NW. cor. sec. 5, T. 15 N., R. 6 W., in NE. angle of crossroads, 11 ft. E. of fence corner, 17 in. S. of fence; standard iron post with bronze cap stamped "1905 610 Adj" (recovered in 1922)-----	610. 379
Farmingdale, 2.2 mi. S. of, W. of center of sec. 32, T. 16 N., R. 6 W., at bridge over Spring Creek, on top of NE. corner of S. abutment; chiseled square-----	560. 14

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Farmingdale, 0.5 mi. S. of, near SE. cor. sec. 19, T. 16 N., R. 7 W., in NW. angle of junction of T-rd. W., 26 ft. N. of S. line of fence, 17 in. E. of fence; standard iron post with bronze cap stamped "1905 598 Adj"	Feet
	597.668
Farmingdale, 1.2 mi. E. of, at stone culvert at bottom of fill, on top of NW. corner of N. wall; chiseled square	581.15
Farmingdale, 2.5 mi. E. of, 1.1 mi. W. of Bradfordton, in NW. angle of rd. crossing, 40 ft. N. of track, 20 in. E. of fence; standard iron post with bronze cap stamped "1905 601 Adj"	601.300

[Continued in Springfield quadrangle, line 3]

4. From point 0.6 mile north of Curran along roads alternately north and west to crossroads 3 miles south of Farmingdale (by S. R. Archer in 1922)

[Continued from Waverly quadrangle, line 2]

Curran, 1.0 mi. N. of, near N $\frac{1}{4}$ cor. sec. 16, T. 15 N., R. 6 W., in SW. angle of T-junction of E.-W. rd., at fence corner, in root on SW. side of 30-in. locust tree; copper nail and washer	615.23
Curran, 2.2 mi. by rd. N. of, 0.5 mi. SW. thence 1.0 mi. S. from Riddle Hill, 0.25 mi. E. of NW. cor. sec. 9, T. 15 N., R. 6 W., 110 ft. W. of rd. S., at SE. corner of bridge over drain, on top of E. end of concrete wing wall; chiseled square	600.50
Riddle Hill, 0.5 mi. SW. of, in NW $\frac{1}{4}$ sec. 4, T. 15 N., R. 6 W., at entrance to Salem Church, on E. side of concrete steps, on top of E. end of second step above concrete walk at foot of lower post of iron railing; chiseled square	614.66

5. From road junction 1 mile north of Curran east along road 1 mile (by S. R. Archer in 1922; spur line leveled twice)

Curran, 1.0 mi. N. thence 1.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 15, T. 15 N., R. 6 W., 20 ft. S. and .8 ft. W. from junction of T-rd. N., 8 ft. W. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 6 1905 614"	613.896
Reference mark, 150 ft. N. of rd. junction, on E. side of rd., in root on SE. side of 12-in. cherry tree; copper nail and washer	613.60
6. From point in Ashland along roads generally east to crossroads 1.6 miles northwest and 0.5 mile north from Pleasant Plains (by L. V. Johnson in 1928)	

[Continued from Virginia quadrangle, line 3]

Ashland, 0.5 mi. E. of, 4.2 mi. NW. thence 0.3 mi. S. from Pleasant Plains, near SE. cor. sec. 28, T. 17 N., R. 8 W., in NW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 8 1905"	633.074
Reference mark, 390 ft. N. of tablet, on N.-S. section line between secs. 27 and 28, 30 ft. E. of rd., in root on NW. side of 42-in. ash tree; copper nail and washer	635.63
Pleasant Plains, 3.5 mi. NW. of, at intersection of N.-S. quarter line of sec. 27, T. 17 N., R. 8 W., and State Highway 125, between highway and B. & O. R. R., 30 ft. SW. of rd., on N. end of S. head wall of culvert; chiseled square	635.89
Pleasant Plains, 1.5 mi. NW. of, near center of sec. 36, T. 17 N., R. 8 W., 30 ft. N. and 60 ft. W. from crossroads, on SE. corner of W. head wall of culvert; chiseled square	625.07

TAYLORVILLE QUADRANGLE

[Latitude 39°30'-39°45'; longitude 89°15'-89°30']

CHRISTIAN AND SANGAMON COUNTIES

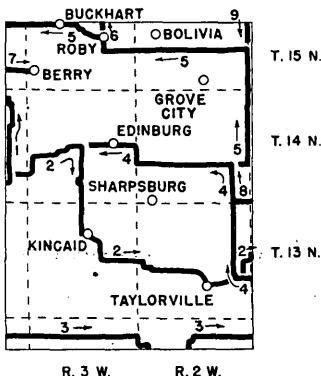


FIGURE 149.—Lines of leveling in Taylorville quadrangle.

1. From point 4.3 miles east and 2.5 miles north from Pawnee along roads east 0.2 mile, thence generally north by way of Cascade to road junction 2.7 miles west and 0.5 mile south from Breckenridge, thence west 0.2 mile (by S. R. Archer in 1922)

[Continued from Divernon quadrangle, line 5]

Pawnee, 4.5 mi. E. and 2.5 mi. N. from, near NE. cor. sec. 35, T. 14 N., R. 4 W., 45 ft. S. and 20 ft. W. from junction of T-rd. W., in fence line, in root on N. side of 15-in. cherry tree; copper nail and washer

Feet
595.21

Pawnee, 4.5 mi. E. and 3.0 mi. N. from, 3.1 mi. S. and 0.3 mi. W. from Cascade, 7.2 mi. by rd. SW. of Edinburg, near E $\frac{1}{4}$ cor. sec. 26, T. 14 N., R. 4 W., 40 ft. N. and 20 ft. W. from junction of T-rd. E.; standard iron post with bronze cap stamped "Prim Trav Sta No 40 S 1922 52 A"

595.841

Reference mark, 200 ft. N. of rd. junction, on W. side of rd., in root on SE. side of 24-in. sycamore tree; copper nail and washer

594.30

Cascade, 2.1 mi. S. and 0.3 mi. W. from, near NW. cor. sec. 25, T 14 N., R. 4' W., 110 ft. S. of Christian-Sangamon county line, on top of E. head wall of concrete culvert; chiseled square

590.76

Cascade, 1.1 mi. S. and 0.3 mi. W. from, near SE. cor. sec. 14, T. 14 N., R. 4 W., 335 ft. W. of crossroads, on N. side of rd., in root on E. side of 14-in. cherry tree; copper nail and washer

596.50

Cascade, 0.1 mi. S. and 0.3 mi. W. from, near SE. cor. sec. 11, T. 14 N., R. 4 W., 25 ft. N. and 15 ft. W. from T-junction of E.-W. rd., in concrete post; aluminum tablet stamped "Prim Trav Sta No 41 S 1922 53 A"

573.604

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	Feet
Cascade, 0.1 mi. S. of, 0.25 mi. E. of SW. cor. sec. 12, T. 14 N., R. 4 W., 30 ft. N. and 40 ft. E. from junction of T-rd. N., in field, in root on SW. side of 24-in. oak tree; copper nail and washer-----	570.58
Cascade, 0.9 mi. N. of, 0.25 mi. E. of NW. cor. sec. 12, T. 14 N., R. 4 W., 150 ft. S. and 25 ft. W. from junction of T-rd. E., 45 ft. S. of NW. corner of yard at Cascade School, 8 ft N. of walk to entrance of schoolhouse, in root on E. side of 24-in. oak tree; copper nail and washer-----	554.12
Cascade, 1.4 mi. N. and 0.3 mi. W. from, 2.7 mi. W. thence 0.5 mi. S. from Breckenridge, near E $\frac{1}{4}$ cor. sec. 2, T. 14 N., R. 4 W., 30 ft. S. and 40 ft. W. from junction of T-rd. W., 10 ft. S. and 25 ft. W. from NE. corner of yard of residence, in root on E. side of 14-in. forked maple tree; copper nail and washer-----	589.10
[Continued in Divernon quadrangle, line 6]	
2. From road junction 4.4 miles east and 3 miles north from Pawnee along roads east and north to road junction 1.9 miles west of Edinburg, thence south and east by way of Kincaid to road junction 2 miles east of Taylorville, thence north and east to point 1.5 miles south and 1 mile west from Willey (by S. R. Archer in 1922)	
Edinburg, 6.0 mi. SW. of, 0.16 mi. W. of center of sec. 30, T. 14 N., R. 3 W., 480 ft. E. of junction of T-rd. N., on S. side of rd., in root on NW. side of 12-in. walnut tree; copper nail and washer-----	596.04
Edinburg, 5.0 mi. SW. of, 0.25 mi. W. of center of sec. 19, T. 14 N., R. 3 W., 120 ft. S. of T-junction of E-W. rd., 20 ft. S. and 15 ft. E. from S. end of bridge over Clear Creek, on E side of rd., in fence line, in root 4 in. underground on NW. side of 24-in. cottonwood tree; copper nail and washer-----	545.06
Edinburg, 4.0 mi. SW. of, 0.25 mi. W. of center of sec. 20, T. 14 N., R. 3 W., 20 ft. N. and 20 ft. W. from junction of T-rd. S., in concrete post; aluminum tablet stamped "Prim Trav Sta No. 63 S 1922 59 A"-----	592.924
Edinburg, 3.3 mi. SW. of, near center of NE $\frac{1}{4}$ sec. 20, T. 14 N., R. 3 W., in SE. corner of junction of T-rd. E., on S. concrete head wall of concrete culvert under rd. E.; chiseled square-----	578.07
Edinburg, 2.4 mi. W. of, near quarter corner between secs. 16 and 21, T. 14 N., R. 3 W., at bridge over South Fork of Sangamon River, at N. end of W. abutment of W. approach, at E. end of wing wall, on parapet; chiseled square-----	554.10
Edinburg, 1.9 mi. W. of, near NW. cor. sec. 22, T. 14 N., R. 3 W., 165 ft. S. and 65 ft. E. from junction of T-rd. S., 45 ft. E. of SW. corner of yard of Star School, in root on W. side of 8-in. elm tree; copper nail and washer-----	594.85
Edinburg, 1.9 mi. W. thence 0.8 mi. S. from, 0.25 mi. N. of SE. cor. sec. 21, T. 14 N., R. 3 W., 25 ft. S. of sixteenth line crossing, on W. side of rd., on S. side of gate to field, 10 ft. S. of 15-in. oak tree, in root on SE. side of 24-in. oak tree; copper nail and washer-----	591.45
Edinburg, 1.9 mi. W. thence 1.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 28, T. 14 N., R. 3 W., on N. bank of South Fork of Sangamon River, 15 ft. W. of section line, in root on SW. side of 30-in. leaning maple tree with forked top; copper nail and washer-----	543.72
Edinburg, 1.9 mi. W. thence 2.1 mi. S. from, 2.5 mi. N. of Bulpitt, about 800 ft. W. of SE. cor. sec. 28, T. 14 N., R. 3 W., 20 ft. N. and 30 ft.	

	Feet
W. from junction of T-rd. N., 5 ft. W. of concrete corner fence post, inside fence line, in concrete post; standard tablet stamped "60 A 1922"-----	575. 139
Reference mark, 70 ft. N. and 30 ft. E. from rd. junction, in SW. corner of yard of Greenwood School, in root on W. side of 12-in. maple tree; copper nail and washer-----	574. 99
Bulpitt, 1.5 mi. N. of, near NE. cor. sec. 4, T. 13 N., R. 3 W., at offset crossroads, 100 ft. W. of rd. N., on S. side of rd. W., in root on NE. side of 12-in. cherry tree; copper nail and washer-----	586. 37
Bulpitt, 0.9 mi. N. of, about 680 ft. S. of E $\frac{1}{4}$ cor. sec. 4, T. 13 N., R. 3 W., on W. side of rd., opposite house on E. side of rd., in root on SE. side of 24-in. maple tree; copper nail and washer-----	599. 21
Bulpitt, on E. side of Main Street, on N. side of main track of Chicago & Illinois Midland Ry., on S. side of switch, on top of SE. corner of concrete base of electric warning signal; chiseled square-----	602. 43
Kincaid, on W. side of, 0.25 mi. N. of SW. cor. sec. 10, T. 13 N., R. 3 W., 30 ft. N. and 30 ft. E. from junction of T-rd. E., inside sidewalk N., 4 ft. N. of sidewalk corner; standard iron post with bronze cap stamped "61 A 1922"-----	600. 737
Reference mark, 125 ft. E. of rd. junction, on S. side of rd., in root on NE. side of five-forked elm tree; copper nail and washer-----	600. 65
Kincaid, about 400 ft. SE. of C. & I. M. Ry. sta., on N. side of track, at W. leg of city water tower, on top of NW. corner of concrete base; chiseled square-----	592. 20
Kincaid, 0.6 mi. SE. of sta., in N. part of Jeisyville, at Peabody Coal Mine No. 7, in yard in front of office, 15 ft. N. and 50 ft. E. from E. entrance to office building, 15 ft. N. and 10 ft. W. from gate to yard, on N. side of walk, in root on NW. side of 15-in. maple tree with forked top; copper nail and washer-----	590. 37
Jeisyville, 0.6 mi. S. of, near NW. cor. sec. 23, T. 13 N., R. 3 W., at SE. corner of crossroads, on top of SE. concrete head wall of drain running diagonally across crossroads; chiseled square-----	581. 25
Jeisyville, 0.6 mi. S. thence 0.1 mi. E. from, 500 ft. E. of NW. cor. sec. 23, T. 13 N., R. 3 W., at bridge over creek, on S. end of E. concrete abutment, on parapet; chiseled square-----	568. 88
Jeisyville, 0.6 mi. S. thence 0.8 mi. E. from, 2.3 mi. NW. of Calloway, 0.25 mi. W. of SE. cor. sec. 14, T. 13 N., R. 3 W., 20 ft. N. and 15 ft. W. from junction of T-rd. S., at fence line, on N. side of rd., in concrete post; standard tablet stamped "62 A 1922"-----	605. 700
Reference mark, 25 ft. N. and 40 ft. E. from rd. junction, 2 ft. inside N. fence line, in root on SE. side of 12-in. walnut tree; copper nail and washer-----	605. 57
Calloway, 1.7 mi. NW. of, near S $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 3 W., 40 ft. S. and 50 ft. W. from NW. end of bridge over South Fork of Sangamon River, 50 ft. N. of river bank, 15 ft. W. of forked maple tree, in root on E. side of 24-in. sycamore tree; copper nail and washer-----	556. 66
Calloway, 1.0 mi. NW. of, near NE. cor. sec. 24, T. 13 N., R. 3 W., 460 ft. W. of rd. junction at Brush College, 30 ft. S. and 90 ft. W. from crossing of C. & I. M. Ry., on S. side of rd., 25 ft. W. of NE. corner of yard of residence, in root 3 in. underground on N. side of easternmost of three oak trees on outside of yard fence; copper nail and washer-----	607. 28

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	Feet
Calloway, in SE. corner of, 0.3 mi. E. of center of sec. 19, T. 13 N., R. 2 W., 150 ft. W. of crossing of R. R. and E.-W. rd., on S. side of rd., on top of W. concrete head wall of tile drain under entrance to field; chiseled square-----	609.49
Calloway, 0.8 mi. E. of, 2.7 mi. along B. & O. R. R. and C. & I. M. Ry. NW. of Taylorville, 0.25 mi. W. of center of sec. 20, T. 13 N., R. 2 W., 130 ft. S. and 30 ft. E. from junction of T-rd. S., 50 ft. S. and 30 ft. E. from crossing of R. R. and N.-S. rd., inside SE. right-of-way corner; standard iron post with bronze cap stamped "63 A 1922"-----	600.717
Taylorville, 2.0 mi. NW. of Christian County courthouse, near quarter corner between secs. 20 and 21, T. 13 N., R. 2 W., 45 ft. S. of right-angle bend S. in rd., 10 ft. N. of switch crossing, on top of W. head wall of concrete culvert; chiseled square-----	601.48
Taylorville, 1.0 mi. NW. of, near E $\frac{1}{4}$ cor. sec. 21, T. 13 N., R. 2 W., 280 ft. N. of R. R. switch crossing, 220 ft. N. of private rd. W., on W. side of N.-S. rd., inside fence, in root on SW. side of 24-in. elm tree; copper nail and washer-----	613.55
Taylorville, at B. & O. R. R. sta., at SE. corner of platform, on top of curb; chiseled square (recovered by U. S. C. & G. S. in 1935)-----	623.096
Taylorville, at NE. corner of courthouse, in concrete post; standard tablet stamped "64 A 1 1922" (recovered by U. S. C. & G. S. in 1935)-----	632.843
Taylorville, on W. side of post office, on N. side of main entrance, directly over second basement window from NW. corner, in base between two stone columns; standard tablet stamped "64 A 2 1922" (recovered by U. S. C. & G. S. in 1935)-----	631.029
Taylorville, 650 ft. SE. of crossing of Wabash Ry. and B. & O. R. R., 100 ft. SE. of rd. crossing, 20 ft. SE. of telegraph pole 155.5, on top of NW. corner of N. concrete head wall of 40-in. cast-iron drain pipe; chiseled square (B. & O. R. R. Sta. 8190+85; recovered by U. S. C. & G. S. in 1935)-----	612.696
Taylorville, 1.5 mi. E. of courthouse, near SW. cor. sec. 24, T. 13 N., R. 2 W., at NW. corner of junction of T-rd. N., on top of W. head wall of concrete culvert under rd. N.; chiseled square-----	615.34
Taylorville, 2.0 mi. E. of, near S $\frac{1}{4}$ cor. sec. 24, T. 13 N., R. 2 W., 100 ft. N. and 35 ft. E. from junction of T-rd. N., in woods, 10 ft. E. of fence line, in root on SW. side of 24-in. oak tree; copper nail and washer-----	605.88
Taylorville, 2.0 mi. E. thence 1.0 mi. N. from, near S $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 2 W., 25 ft. N. and 80 ft. E. from right-angle bend E. in rd., inside fence, in root on NW. side of 36-in. elm tree; copper nail and washer-----	629.10
Taylorville, 2.5 mi. E. and 1.2 mi. N. from, 1.8 mi. S. and 1.0 mi. W. from Willey, 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 2 W., 260 ft. N. of house on W. side of rd., 40 ft. W. of rd., 18 ft. W. of fence corner, in fence line W., in root on SW. side of 12-in. elm tree; copper nail and washer-----	635.12

[Continued in Assumption quadrangle, line 1]

3. From point 1 mile south and 1.8 miles east from corner of Christian, Montgomery, and Sangamon Counties generally east along roads to point 0.4 mile south and 1 mile west from Velma (by E. O. Brooks in 1922)

[Continued from Divernon quadrangle, line 8]

Zenobia, 1.2 mi. S. thence 2.0 mi. E. from, 1.0 mi. S. thence 2.0 mi. E. from corner of Christian, Montgomery, and Sangamon Counties, 25 ft. N. and 50 ft. E. from crossroads, near SW. cor. sec. 1, T. 12 N., R. 4 W.; standard iron post with bronze cap stamped "Prim Trav Sta No 43 S 1922 1 EB"-----	Feet 620. 706
Reference mark, 50 ft. S. of iron post, in SE. angle of crossroads, in root on N. side of 36-in. twin willow trees; copper nail and washer-----	619. 96
T. 12 N., R. 4 W., near SE. cor. sec. 1, on right-of-way fence line, in NW. angle of crossroads, in root on S. side of 42-in. maple tree; copper nail and washer-----	621. 30
T. 12 N., R. 3 W., near NE. cor. sec. 8, on S. side of rd., in fence line, in root on W. side of 18-in. Osage-orange tree; copper nail and washer-----	617. 25
T. 12 N., R. 3 W., near SW. cor. sec. 3, 5.4 mi. S. of Kincaid, 30 ft. N. and 50 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 44 S 1922 2 EB"-----	614. 577
Reference mark, 15 ft. S. and 100 ft. W. from tablet, in center of top of N. head wall of concrete culvert; chiseled square-----	615. 92
T. 12 N., R. 3 W., near SE. cor. sec. 3, in NW. angle of crossroads, in root on S. side of 24-in. black-oak tree; copper nail and washer-----	580. 43
T. 12 N., R. 3 W., near NE. cor. sec. 11, 30 ft. S. and 85 ft. W. from junction of T-rd. S., in fence line, in root on N. side of 12-in. maple tree; copper nail and washer-----	607. 89
T. 12 N., R. 2 W., near W. cor. secs. 6 and 7, 1.4 mi. N. of Clarksdale, 20 ft. E. of T-junction of N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 45 S 1922 3 EB"-----	617. 051
Reference mark, 30 ft. N. and 40 ft. W. from iron post, in NW. angle of rd., at T-rd. W., in root on W. side of 12-in. Osage-orange tree; copper nail and washer-----	616. 14
Clarksdale, 1.2 mi. NE. of, near center of sec. 7, T. 12 N., R. 2 W., 70 ft. NE. of rd. junction, on E. side of rd., in root on N. side of 18-in. black-oak tree; copper nail and washer-----	628. 07
[Jogs into Morrisonville quadrangle, line 1]	
T. 12 N., R. 2 W., 0.25 mi. W. of NE. cor. sec. 9, 3.0 mi. S. thence 0.8 mi. W. from Taylorville, 70 ft. S. and 40 ft. W. from center of right-angle turn in rd., in root on NE. side of 12-in. white-oak tree; copper nail and washer-----	609. 38
Taylorville, 3.0 mi. S. of, near N $\frac{1}{4}$ cor. sec. 10, T. 12 N., R. 2 W., 25 ft. S. and 60 ft. E. from crossroads, in root on N. side of 30-in. maple tree; copper nail and washer-----	617. 22
Taylorville, 3.0 mi. S. thence 1.5 mi. E. from, 0.4 mi. S. thence 2.0 mi. W. from Velma, near SE. cor. sec. 2, T. 12 N., R. 2 W., 35 ft. N. and 30 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 47 S 1922 5 EB"-----	612. 798
Reference mark, 18 ft. S. and 50 ft. W. from iron post, in yard at Dawson School, in root on N. side of 18-in. black-oak tree; copper nail and washer-----	614. 03

[Continued in Assumption quadrangle, line 2]

4. From point 2.7 miles east of Taylorville along roads alternately west and north to road junction 1.9 miles west of Edinburg (by E. O. Brooks in 1922)

[Continued from Assumption quadrangle, line 2]

	Feet
Taylorville, 2.5 mi. E. of courthouse, 1,380 ft. NW. of SE. cor. sec. 24, T. 13 N., R. 2 W., at SE. corner of steel bridge over Flat Branch, on steel pier; head of southernmost bolt	578.53
Taylorville, 1.6 mi. E. thence 1.1 mi. N. from, 20 ft. N. and 30 ft. W. from SE. cor. sec. 14, T. 13 N., R. 2 W., in concrete post; aluminum tablet stamped "Prim Trav Sta No 52 S 1922 8 EB"	615.349
Reference mark, 23 ft. S. of tablet, in root on N. side of 8-in. elm tree; copper nail and washer	615.31
Taylorville, 1.6 mi. E. thence 2.1 mi. N. from, 0.5 mi. S. of Goodrich School, near W. cor. secs. 12 and 13, T. 13 N., R. 2 W., 65 ft. E. of junction of T-rd. W., in root on W. side of 24-in. elm tree; copper nail and washer	612.06
Taylorville, 1.6 mi. E. thence 3.1 mi. N. from, near NW. cor. sec. 12, T. 13 N., R. 2 W., in SE. angle of crossroads, on concrete base of corner fence post; chiseled square	610.76
Taylorville, 1.6 mi. E. thence 4.1 mi. N. from, 30 ft. N. of N. cor. secs. 1 and 2, T. 13 N., R. 2 W., 70 ft. W. of S. cor. secs. 35 and 36, T. 14 N., R. 2 W.; standard iron post with bronze cap stamped "Prim Trav Sta No 53 S 1922 9 EB" (recovered in 1940) ⁵⁰	608.014
Reference mark, 60 ft. N. and 80 ft. E. from iron post, near NE. angle of crossroads, in root on S. side of 18-in. maple tree; copper nail and washer	607.62
Taylorville, 1.6 mi. E. thence 5.1 mi. N. from, near SE. cor. sec. 26, T. 14 N., R. 2 W., in NW. angle of crossroads, at entrance to Prairie Lea School, on E. end of concrete step; chiseled square (recovered in 1940)	607.97
Taylorville, 1.6 mi. E. thence 6.1 mi. N. from, near SW. cor. sec. 24; T. 14 N., R. 2 W., in NE. angle of crossroads, in knot on S. side of brace to corner post; copper nail and washer (recovered in 1940)	605.99
Taylorville, 1.6 mi. E. thence 6.1 mi. N. from, near SW. cor. sec. 24, T. 14 N., R. 2 W., in NE. angle of crossroads, near SE. corner of orchard, in root on W. side of 8-in. cherry tree; copper nail and washer	603.61
Taylorville, 6.3 mi. N. and 0.5 mi. E. from, near NE. cor. sec. 27, T. 14 N., R. 2 W., near SW. angle of crossroads, in center of top of W. head wall of concrete culvert; chiseled square	607.27
Taylorville, 6.3 mi. N. and 0.5 mi. W. from, 4.3 mi. E. thence 1.0 mi. S. from Edinburg, near NE. cor. sec. 28, T. 14 N., R. 2 W., 20 ft. S. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 60 S 1922 10 EB"	602.983
Reference mark, 55 ft. N. and 70 ft. E. from iron post, in NE. angle of crossroads, in root on N. side of 18-in. walnut tree; copper nail and washer	603.59
Edinburg, 3.3 mi. E. thence 1.0 mi. S. from, near SW. cor. sec. 21, T. 14 N., R. 2 W., 70 ft. N. and 27 ft. E. from junction of T-rd. N., in root on N. side of 18-in. wild-cherry tree; copper nail and washer	600.66

⁵⁰ When this bench mark was recovered in 1940 it seemed to have been disturbed and lowered 0.057 ft. The figures given represent the new elevation.

	Feet
Edinburg, 2.3 mi. E. thence 1.0 mi. S. from, 0.3 mi. E. and 1.8 mi. N. from Sharpsburg, near SW. cor. sec. 20, T. 14 N., R. 2 W., 20 ft. N. and 48 ft. E. from crossroads, in root on S. side of 12-in. Osage-orange tree; copper nail and washer-----	600. 10
Edinburg, 1.1 mi. E. thence 1.0 mi. S. from, near NW. cor. sec. 30, T. 14 N., R. 2 W., 25 ft. S. and 50 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 61 S 1922 11 EB"-----	599. 330
Edinburg, 1.1 mi. E. of, near SW. cor. sec. 18, T. 14 N., R. 2 W., 34 ft. N. and 24 ft. E. from crossroads, in root on W. side of 30-in. maple tree; copper nail and washer-----	597. 22
Edinburg, in SE. part of, in SE. angle of crossroads, in root on N. side of 36-in. elm tree; copper nail and washer-----	582. 82
Edinburg, at B. & O. R. R. sta., on NW. corner of concrete curb of platform; chiseled square (B. & O. R. R. B. M.; recovered by U. S. C. & G. S. in 1935)-----	586. 127
Edinburg, 1,200 ft. SE. of sta., at crossing; top of W. rail-----	587. 7
Edinburg, 0.9 mi. W. of, near NE. cor. sec. 22, T. 14 N., R. 3 W., 20 ft. S. and 50 ft. W. from junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 62 S 1922 12 EB" ⁶¹ -----	600. 053
Reference mark, 8 ft. S. and 40 ft. E. from iron post, in SW. angle of rd. junction, in center of top of W. head wall of concrete culvert; chiseled square-----	601. 60
5. From crossroads 1.6 miles east and 6.1 miles north from Taylorville along roads east 1 mile, thence north 6 miles, thence alternately west and northwest to point 2 miles east of Rochester (by E. O. Brooks in 1922)	
Taylorville, 1.6 mi. E. thence 6.1 mi. N. from, 6.3 mi. E. thence 1.0 mi. S. from Edinburg, near SW. cor. sec. 24, T. 14 N., R. 2 W., near SE. corner of orchard, in root on W. side of 8-in. cherry tree; copper nail and washer-----	603. 61
Edinburg, 7.3 mi. E. thence 1.0 mi. S. from, 0.3 mi. N. thence 3.3 mi. W. from Stonington, near NW. cor. sec. 30, T. 14 N., R. 1 W., 25 ft. S. and 50 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 54 S 1922 13 EB"-----	603. 545
Reference mark, 85 ft. S. and 18 ft. E. from tablet, in SE. angle of crossroads, in root on E. side of 12-in. apple tree; copper nail and washer-----	604. 22
Edinburg, 7.3 mi. E. thence 0.1 mi. N. from, near W. side SW $\frac{1}{4}$ sec. 18, T. 14 N., R. 1 W., about 760 ft. N of crossroads, on E. side of rd., in root on W. side of Osage-orange tree; copper nail and washer-----	605. 40
Edinburg, 7.3 mi. E. thence 1.0 mi. N. from, near SW. cor. sec. 7, T. 14 N., R. 1 W., in NE. angle of crossroads, in root on NW. side of 60-in. cottonwood tree; copper nail and washer-----	612. 69
Edinburg, 7.3 mi. E. thence 2.0 mi. N. from, 1.5 mi. S. and 2.4 mi. E. from Grove City, 30 ft. N. and 20 ft. E. from junction of T-rd. E. at W. cor. secs. 6 and 7, T. 14 N., R. 1 W., 60 ft. S. and 20 ft. E. from junction of T-rd. W. at E. cor. secs. 1 and 12, T. 14 N., R. 2 W.; standard iron post with bronze cap stamped "Prim Trav Sta No 55 S 1922 14 EB"-----	609. 167

⁶¹ In 1940 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 92 1935," elevation 584.973 ft.

	Feet
Reference mark, 28 ft. N. and 50 ft. W. from iron post, in SW. angle of junction of T-rd. W., in root on N. side of 30-in. elm tree; copper nail and washer-----	608. 57
Grove City, 0.5 mi. S. and 2.4 mi. E. from, near NW. cor. sec. 6, T. 14 N., R. 1 W., in SE. angle of crossroads, in root on W. side of 24-in. maple tree; copper nail and washer-----	610. 55
Grove City, 0.5 mi. N. and 2.4 mi. E. from, near NE. cor. sec. 36, T. 15 N., R. 2 W., 90 ft. S. and 23 ft. W. from crossroads, in root on E. side of 48-in. maple tree; copper nail and washer-----	603. 40
Grove City, 1.5 mi. N. and 2.4 mi. E. from, 0.5 mi. E. thence 2.5 mi. S. from Mount Auburn, 0.9 mi. S. thence 5.0 mi. E. from Bolivia, 20 ft. E. of junction of T-rd. W. at E. cor. secs. 24 and 25, T. 15 N., R. 2 W., 50 ft. N. and 20 ft. E. from junction of T-rd. E. at W. cor. secs. 19 and 30, T. 15 N., R. 1 W., in concrete post; aluminum tablet stamped "Prim Trav Sta No 56 S 1922 15 EB" (recovered in 1940)-----	604. 555
Reference mark, 170 ft. S. and 20 ft. E. from tablet, near SW. corner of yard of residence, in root on N. side of 30-in. elm tree; copper nail and washer-----	605. 54
Bolivia, 0.9 mi. S. thence 4.0 mi. E. from, near NW. cor. sec. 25, T. 15 N., R. 2 W., 15 ft. S. and 130 ft. E. from crossroads, in root on N. side of 36-in. cottonwood tree; copper nail and washer-----	608. 54
Bolivia, 0.9 mi. S. thence 2.9 mi. E. from, about 640 ft. W. of NE. cor. sec. 27, T. 15 N., R. 2 W., at SE. corner of steel bridge over small drain, on concrete retaining wall; chiseled square-----	585. 70
Bolivia, 0.9 mi. S. thence 2.2 mi. E. from, 0.25 mi. E. of SW. cor. sec. 22, T. 15 N., R. 2 W., in NW. angle of crossroads, on W. end of concrete retaining wall of culvert; chiseled square-----	623. 00
Bolivia, 0.9 mi. S. thence 1.0 mi. E. from, near NE. cor. sec. 29, T. 15 N., R. 2 W., 25 ft. S. and 60 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 57 S 1922 16 EB"-----	599. 165
Bolivia, 0.9 mi. S. of, near NW. cor. sec. 29, T. 15 N., R. 2 W., in SE. angle of crossroads, in root on N. side of 24-in. Osage-orange tree; copper nail and washer-----	597. 43
Bolivia, 0.9 mi. S. thence 1.0 mi. W. from, 0.25 mi. E. of SW. cor. sec. 19, T. 15 N., R. 2 W., in NW. angle of junction of T-rd. N., in root on S. side of 18-in. white-oak tree; copper nail and washer-----	591. 94
Bolivia, 0.9 mi. S. thence 2.2 mi. W. from, 0.8 mi. S. and 0.6 mi. E. from Roby, near NE. cor. sec. 26, T. 15 N., R. 3 W., 25 ft. S. and 25 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 58 S 1922 17 EB"-----	581. 989
Reference mark, 12 ft. S. and 40 ft. E. from tablet, in SE. angle of crossroads, in root on W. side of 18-in. hickory tree; copper nail and washer-----	581. 86
Roby, 0.8 mi. S. and 0.2 mi. W. from, 0.25 mi. E. of SW. cor. sec. 23, T. 15 N., R. 3 W., 145 ft. N. and 20 ft. W. from T-junction of N-S. rd., in root on N. side of 18-in. elm tree; copper nail and washer-----	589. 43
Roby, 0.2 mi. W. of, near center of NW $\frac{1}{4}$ sec. 23, T. 15 N., R. 3 W., 90 ft. S. and 50 ft. E. from T-junction of E-W. rd., in root on S. side of 24-in. black-oak tree; copper nail and washer-----	587. 22
Roby, 0.2 mi. W. of, near center of NW $\frac{1}{4}$ sec. 23, T. 15 N., R. 3 W., in root on W. side of 18-in. elm tree; copper nail and washer-----	587. 97

Roby, 1.2 mi. NW. of, 1.6 mi. SE. of Buckhart, 0.25 mi. E. of SW. cor. sec. 15, T. 15 N., R. 3 W., in NE. angle of junction of N.-S. rd., 8 ft. N. and 5 ft. E. from corner of right-of-way fence, in root on S. side of 18-in. elm tree; copper nail and washer-----	Feet 590. 95
Buckhart, 25 ft. N. and 30 ft. E. from crossroads, near W $\frac{1}{4}$ cor. sec. 16, T. 15 N., R. 3 W.; standard iron post with bronze cap stamped "Prim Trav Sta No 59 S 1922 18 EB"-----	565. 776
Reference mark, 80 ft. SW. of iron post, in SW. angle of crossroads, 10 ft. S. and 10 ft. W. from corner of right-of-way fence, in root on NW. side of 30-in. maple tree; copper nail and washer-----	562. 46
Buckhart, 1.0 mi. W. of; near W $\frac{1}{4}$ cor. sec. 17, T. 15 N., R. 3 W., at entrance to Buckhart School, on S. end of concrete walk, 4 in. N. of S. edge, and 18 in. W. of E. edge; chiseled square-----	576. 36
Buckhart, 2.9 mi. W. of, near E $\frac{1}{4}$ cor. sec. 14, T. 15 N., R. 4 W., 25 ft. N. and 35 ft. W. from junction of T-rd. N., in concrete post; aluminum tablet stamped "19 EB 1922"-----	582. 390
Reference mark, 6 ft. N. and 70 ft. E. from tablet, in SW. corner of yard of Hedge School, in root on E. side of 18-in. maple tree; copper nail and washer-----	582. 84

[Continued in Springfield quadrangle, line 5]

6. From road junction 0.2 mile west of Roby along roads east to Roby, thence generally north 0.8 mile (by E. O. Brooks in 1922)

Roby, at crossing of Cincinnati, Indianapolis & Western R. R.; top of N. rail-----

Roby, 0.8 mi. N. of, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 14, T. 15 N., R. 3 W., 125 ft. S. and 40 ft. W. from crossroads, in barnyard, in root on N. side of 18-in. hickory tree; copper nail and washer-----

[Continued in Cornland quadrangle, line 2]

7. From point 1.5 miles west of Berry east along road to Berry (by Harry McDermith in 1936; leveled twice)

[Continued from Divernon quadrangle, line 10]

Berry, 0.4 mi. W. of, near SW. cor. sec. 30, T. 15 N., R. 3 W., 22 ft. N. and 39 ft. E. from junction of T-rd. N., in root on E. side of 24-in. boxelder tree; copper nail and washer-----

U. S. C. & G. S. standard disk stamped "U 92 1935"-----

8. From point 2.7 miles east and 4.1 miles north from Taylorville along roads west 1.1 miles, thence north 2 miles (by W. C. Elledge in 1940)

[Continued from Assumption quadrangle, line 9]

Taylorville, 2.6 mi. E. and 4.1 mi. N. from, near NW. cor. sec. 6, T. 13 N., R. 1 W., at offset crossroads, 30 ft. S. and 18 ft. E. from junction of T-rd. S., in root on N. side of 24-in. hedge tree; copper nail and washer-----

9. From point 0.5 mile east and 1 mile south from Mount Auburn along roads south 1.5 miles, thence east 0.1 mile (by W. C. Elledge in 1940)

[Continued from Cornland quadrangle, line 6]

Mount Auburn, 0.5 mi. E. thence 1.4 mi. S. from, about 800 ft. N. of SW. cor. sec. 18, T. 15 N., R. 1 W., on E. side of rd., S. of house, in SW. corner of wood lot, in root on SE. side of 24-in. maple tree; copper nail and washer-----

[Continued in Assumption quadrangle, line 12]

591. 34
591. 209

610. 78

611. 20

TOULON QUADRANGLE

[Latitude $41^{\circ}00'$ – $41^{\circ}15'$; longitude $89^{\circ}45'$ – $90^{\circ}00'$]

BUREAU, HENRY, KNOX, AND STARK COUNTIES

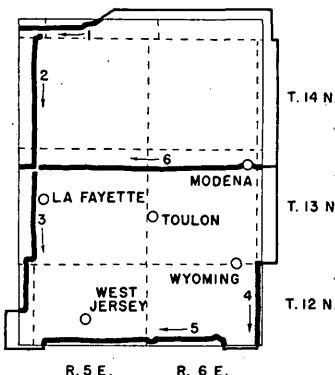


FIGURE 150.—Lines of leveling in Toulon quadrangle.

1. From Kewanee southwest along Chicago, Burlington & Quincy Railroad to point near Franklin Street, thence west along road to point near center of sec. 35, T. 15 N., R. 4 E. (by H. S. Senseney in 1927)

[Continued from Annawan quadrangle, line 3]

Kewanee, at NE. corner of intersection of East and Lake Streets, in angle formed by sidewalk on E. side of East Street, in concrete post; standard tablet stamped "Prim Trav Sta No 139 K 1924"-----

Reference mark, 560 ft. N. of tablet, at SE. corner of viaduct over East Street, on fourth course below level of track; chiseled square-----

Kewanee, on E. side of Park Street, 30 ft. N. of west-bound track of C. B. & Q. R. R.; top of hydrant-----

Kewanee, on S. side of tracks, on W. side of Franklin Street, at NW. corner of base of warning signal; bolt-----

Kewanee, at NE. corner of intersection of New and High Streets, 2 ft. N. of street-sign post, on sidewalk; chiseled square-----

Kewanee, 1.1 mi. W. of Franklin Street crossing of C. B. & Q. R. R., 0.25 mi. E. of center of sec. 31, T. 15 N., R. 5 E., in NW. angle of cross-roads, 2.5 ft. W. of corner fence post; top of cap on 1-in. iron pipe-----

Kewanee, 2.1 mi. W. of, on N. side of rd., 5 ft. E. of gate, in line with T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 138 K 1924"-----

Feet
819.850
823.21
851.90
862.19
846.44
860.69
841.161

[Continued in Galva quadrangle, line 1]

2. From road junction 2.1 miles west of Kewanee south along roads to crossroads 1.7 miles north and 0.5 mile west from La Fayette (by H. S. Senseney in 1927; leveled twice)

Kewanee, 1.0 mi. S. and 2.4 mi. W. from, near E $\frac{1}{4}$ cor. sec. 1, T. 14 N., R. 4 E., in SW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----

857.11

	Feet
T. 14 N., R. 5 E., near $W\frac{1}{4}$ cor. sec. 7, 120 ft. S. of junction of T-rd. E., on SE. corner of culvert; chiseled square-----	814. 39
T. 14 N., R. 5 E., 55 ft. S. and 27 ft. E. from $W\frac{1}{4}$ cor. sec. 18, 320 ft. S. of crossing of C. B. & Q. R. R., in SE. angle of junction of T-rd. E., at NW. corner of grounds of Midland Country Club, 15 ft. S. of SW. gatepost at entrance, in concrete post; standard tablet stamped "Prim Trav Sta No 126 K 1924"-----	846. 520
Reference mark, 65 ft. W. of tablet, at NE. corner of interurban sta.; chiseled square-----	847. 71
T. 14 N., R. 4 E., near NE. cor. sec. 24, 330 ft. S. of junction of T-rd. W., on E. side of rd., in root of tree; copper nail and washer-----	845. 95
T. 14 N., R. 5 E., near SW. cor. sec. 19, 410 ft. N. of junction of T-rd. E., on SE. corner of culvert; chiseled square-----	788. 35
T. 14 N., R. 5 E., near NW. cor. sec. 31, in SE. angle of crossroads, on culvert; chiseled square-----	822. 76
T. 13 N., Rs. 4 and 5 E., 30 ft. S. and 30 ft. E. from N. cor. secs. 1 and 6, near corner of Henry, Knox, and Stark Counties, in SE. angle of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 127 K 1924"-----	825. 960
Reference mark, 210 ft. N. of tablet, on W. side of rd., on culvert; chiseled square-----	823. 71
T. 13 N., R. 5 E., near NW. cor. sec. 7, 2.0 mi. S. and 3.0 mi. E. from Galva, 1.7 mi. N. and 0.5 mi. W. from La Fayette, in SE. angle of crossroads, 11 ft. S. of telephone pole, 2 ft. W. of hedge fence; top of cap on 1-in. iron pipe-----	817. 03
3. From crossroads 1.7 miles north and 0.5 mile west from La Fayette alternately south and west to point near Fair View School (by H. S. Senseney in 1927)	
La Fayette, 0.5 mi. N. and 0.5 mi. W. from, near NW. cor. sec. 18, T. 13 N., R. 5 E., 235 ft. S. of junction of T-rd. E., on NE. corner of bridge; chiseled square-----	738. 95
La Fayette, 0.5 mi. W. of, 0.25 mi. N. of SE. cor. sec. 13, T. 13 N., R. 4 E., at SW. corner of crossroads, inside wire fence, in concrete post; standard tablet stamped "Prim Trav Sta No 128 K 1924"-----	787. 150
Reference mark, 16 ft. NW. of tablet, in root of tree; copper nail and washer-----	787. 82
La Fayette, 0.5 mi. W. thence 0.5 mi. S. from, 0.25 mi. S. of NE. cor. sec. 24, T. 13 N., R. 4 E., 65 ft. S. of junction of T-rd. E., on W. side of rd., in root of tree; copper nail and washer-----	756. 11
La Fayette, 0.5 mi. W. thence 1.7 mi. S. from, near $E\frac{1}{4}$ cor. sec. 25, T. 13 N., R. 4 E., in NW. angle of junction of T-rd. W., on concrete base of fence post; chiseled square-----	734. 06
La Fayette, 0.5 mi. W. thence 2.7 mi. S. from, near $W\frac{1}{4}$ cor. sec. 31, T. 13 N., R. 5 E., 70 ft. S. of junction of T-rd. E., on E. side of rd., in root of tree; copper nail and washer-----	699. 09
La Fayette, 3.0 mi. S. and 1.0 mi. W. from, 0.5 mi. E. and 2.7 mi. N. from Fair View School, 0.25 mi. S. of center of sec. 36, T. 13 N., R. 4 E., 380 ft. N. of Walnut Creek, on N. side of rd., in line with W. boundary of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 129 K 1924"-----	665. 352
Reference mark, 350 ft. S. of tablet, at NW. corner of bridge; chiseled square-----	663. 72

Fair View School, 0.5 mi. E. thence 1.0 mi. N. from, 200 ft. N. of junction of T-rd. W., on W. side of rd., in root of tree; copper nail and washer	Feet 734. 52
Fair View School, 0.5 mi. E. of, 0.5 mi. S. and 5.5 mi. E. from Victoria, near center of sec. 18, T. 12 N., R. 4 E., in NW. angle of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 130 K 1924"	731. 507
Reference mark, 190 ft. W. of tablet, in root of tree; copper nail and washer	728. 52

[Continued in Galva quadrangle, line 4]

4. From point 1.2 miles east of Wyoming west 0.2 mile, thence south along range-line road and State Highway 30 to point 0.3 mile north and 0.5-mile west from Stark (by H. S. Senseney in 1927)

[Continued from Camp Grove quadrangle, line 3]

Wyoming, 1.0 mi. E. of, near NW. cor. sec. 6, T. 12 N., R. 7 E., in SE. angle of junction of T-rd. S., in root of tree; copper nail and washer	703. 84
Wyoming, 1.0 mi. E. thence 1.0 mi. S. from, 31 ft. S. and 24 ft. E. from NW. cor. sec. 7, T. 12 N., R. 7 E., at junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 37 T 1924" ⁵²	668. 843
Reference mark, 360 ft. N. of tablet, on W. side of rd., in root of tree; copper nail and washer	670. 80
Wyoming, 1.0 mi. E. thence 2.0 mi. S. from, 210 ft. S. and 80 ft. W. from NE. cor. sec. 13, T. 12 N., R. 6 E., on E. side of highway, on culvert; chiseled square	668. 54
Wyoming, 1.0 mi. E. thence 3.0 mi. S. from, 0.5 mi. W. thence 1.5 mi. N. from Stark, near SW. cor. sec. 18, T. 12 N., R. 7 E., in NE. angle of junction of T-rd. E., on culvert; chiseled square	660. 71

[Continued in Elmwood quadrangle, line 1]

5. From point about 1 mile north and 0.2 mile west from Duncan north 0.3 mile, thence west to crossroads 1 mile south and 2.5 miles west from West Jersey, thence south to point in sec. 30, T. 12 N., R. 5 E. (by J. A. Shumate in 1927)

[Continued from Elmwood quadrangle, line 2]

Duncan, 1.3 mi. N. of, near NW. cor. sec. 26, T. 12 N., R. 6 E., 20 ft. S. and 100 ft. W. from junction of T-rd. S., in root on N. side of 12-in. boxelder tree; copper nail and washer	619. 29
Duncan, 1.3 mi. N. thence 0.7 mi. W. from, near S $\frac{1}{4}$ cor. sec. 22, T. 12 N., R. 6 E., 0.2 mi. W. of bridge over Spoon River, 13 ft. N. and 27 ft. W. from rd. forks, 6 ft. W. of gatepost, in concrete post; standard tablet stamped "Prim Trav Sta No 42 T 1924"	620. 665
Reference mark, 700 ft. W. of tablet, on S. side of rd., in root on N. side of 15-in. boxelder tree; copper nail and washer	619. 68
T. 12 N., R. 6 E., near W. cor. secs. 21 and 28, in NW. angle of crossroads, in root on E. side of 20-in. black-oak tree; copper nail and washer	681. 18
T. 12 N., R. 6 E., near NW. cor. sec. 29, in SE. angle of junction of T-rd. S., in root on N. side of 30-in. cottonwood tree; copper nail and washer	680. 76

⁵² In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "W 44 1934," elevation 707.377 ft.

	Feet
T. 12 N., R. 6 E., near quarter corner between secs. 19 and 30, 19 ft. W. of junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 43 K 1924"-----	680. 360
Reference mark, 0.28 mi. E. of tablet, on S. side of rd., in root on W. side of 20-in. cherry tree; copper nail and washer-----	682. 85
T. 12 N., R. 6 E., near NW. cor. sec. 30, 155 ft. S. of junction of T-rd. W., 145 ft. N. of junction of T-rd. E., on E. side of range-line rd., in root on W. side of 10-in. hedge tree in hedgerow; copper nail and washer-----	659. 53
T. 12 N., R. 5 E., near SW. cor. sec. 23, 23 ft. N. and 41 ft. E. from crossroads, 2 ft. S. of fence; top of cap on 1-in. iron pipe-----	697. 83
West Jersey, 1.0 mi. S. of, near SW. cor. sec. 22, T. 12 N., R. 5 E., 29 ft. N. and 33 ft. E. from crossroads, in SW. corner of orchard, just inside right-of-way of State Highway 78, in concrete post; standard tablet stamped "Prim Trav Sta No 44 1924" ⁶³ -----	698. 915
Reference mark, 220 ft. S. of tablet, in root on N. side of 24-in. cottonwood tree; copper nail and washer-----	699. 54
T. 12 N., R. 5 E., near N $\frac{1}{4}$ cor. sec. 29, 36 ft. S. and 25 ft. W. from crossroads, 16 ft. S. and 2 ft. E. from fence corner; top of cap on 1-in. iron pipe-----	644. 65
T. 12 N., R. 5 E., near S $\frac{1}{4}$ cor. sec. 19, in NE. angle of junction of T-rd. E., on N. end of concrete pipe culvert; chiseled square-----	635. 78

[Continued in Elmwood quadrangle, line 3]

6. From point 0.7 mile east of Modena west along road to Knox-Stark county line at point 1.7 miles north and 0.5 mile west from La Fayette (by J. A. Shumate in 1927)

[Connects with line 3 in Camp Grove quadrangle]

Modena, 0.5 mi. E. of, 1.0 mi. N. and 2.5 mi. W. of Castleton, 300 ft. E. of SW. cor. sec. 6, T. 13 N., R. 7 E., in NE. angle of rd. forks, in root on SW. side of 20-in. elm tree; copper nail and washer-----	705. 24
Spoon River, just E. of Modena; surface of water Sept. 5, 1927-----	652. 6
Modena, 0.5 mi. W. of, near SW. cor. sec. 1, T. 13 N., R. 6 E., 110 ft. N. and 180 ft. E. from junction of T-rd. N., in root on S. side of 20-in. elm tree; copper nail and washer-----	685. 16
Modena, 1.0 mi. W. of, near S $\frac{1}{4}$ cor. sec. 2, T. 13 N., R. 6 E., 40 ft. N. and 40 ft. E. from junction of T-rd. S., in root on SW. side of 18-in. maple tree; copper nail and washer-----	722. 51
Modena, 2.0 mi. W. of, at Holmes School, 27 ft. S. of N $\frac{1}{4}$ cor. sec. 10, T. 13 N., R. 6 E., at junction of T-rd. N., in NE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 137 K 1924"-----	745. 547
Reference mark, 35 ft. S. of tablet, in root on W. side of 24-in. maple tree; copper nail and washer-----	746. 14
Modena, 2.5 mi. W. of, near SW. cor. sec. 3, T. 13 N., R. 6 E., 30 ft. N. and 15 ft. E. from junction of T-rd. S., in root on W. side of 8-in. hedge tree; copper nail and washer-----	744. 53
Modena, 3.5 mi. W. of, near SE. cor. sec. 5, T. 13 N., R. 6 E., in NW. angle of crossroads, in root on SE. side of 20-in. maple tree; copper nail and washer-----	750. 04

⁶³ In 1928 this bench mark was moved 1.5 ft. south and 14 ft. east from this location and reset at an elevation 0.500 ft. higher than that originally determined. The figures given represent the new elevation.

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Modena, 5.0 mi. W. of, 2.5 mi. N. of Toulon, near S $\frac{1}{4}$ cor. sec. 6, T. 13 N., R. 6 E., 30 ft. N. and 40 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 136 K 1924"-----	Feet 761.331
Reference mark, 13 ft. due W. of tablet, 2.5 ft. S. of fence; top of cap on iron pipe set 10 in. underground-----	759.97
Modena, 6.0 mi. W. of, 2.5 mi. E. of Centennial School, near S $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 5 E., 10 ft. N. and 140 ft. W. from junction of T-rd. S., on N. head wall of concrete culvert; chiseled square-----	731.92
Centennial School, 2.0 mi. E. of, near NW. cor. sec. 12, T 13 N., R. 5 E., 240 ft. S. and 10 ft. E. from crossroads, on E. head wall of concrete culvert; chiseled square-----	723.50
Centennial School, 1.7 mi. N. and 2.5 mi. E. from La Fayette, near SE. cor. sec. 4, T. 13 N., R. 5 E., 28 ft. N. and 25 ft. W. from crossroads, in SE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 135 K 1924"-----	786.335
Reference mark, 17 ft. S. 40° E. from tablet, on N. head wall of concrete culvert; chiseled square-----	785.92
Centennial School, 1.0 mi. W. of, 1.0 mi. E. of Himes School, near NE. cor. sec. 8, T. 13 N., R. 5 E., 30 ft. S. and 35 ft. W. from crossroads, in 6-in. hedge tree; copper nail and washer-----	803.04
Himes School, 1.7 mi. N. and 0.5 mi. E. from La Fayette, near cor. secs. 5, 6, 7, and 8, T. 13 N., R. 5 E., on N. end of concrete step; chiseled square-----	796.58

VERMONT QUADRANGLE
 [Latitude $40^{\circ}15'$ – $40^{\circ}30'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]
FULTON, McDONOUGH, AND SCHUYLER COUNTIES

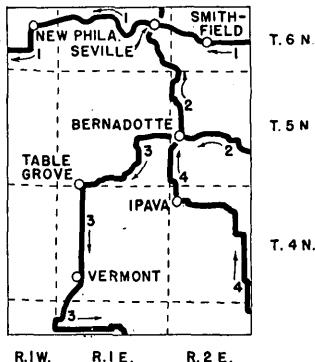


FIGURE 151.—Lines of leveling in Vermont quadrangle.

1. From point 2.2 miles east of Smithfield generally west along Toledo, Peoria & Western Railroad to point 0.2 mile west of New Philadelphia, thence along roads south 1.4 miles and west 1.3 miles (by E. M. Bandli in 1909; relevelled by S. R. Archer in 1910)

[Continued from Havana quadrangle, line 3]

Smithfield, about 50 ft. W. of sta., 25 ft. S. of track, 2 ft. W. of telegraph pole; standard iron post with bronze cap stamped "650" (recovered by U. S. C. & G. S. in 1935) -----

Seville, 0.2 mi. NW. of, 40 ft. S. of rd. crossing, 200 ft. N. of ferry across Spoon River, 60 ft. S. of tracks; standard iron post with bronze cap stamped "495" and "Prim Trav Sta No 16 1910" (recovered by U. S. C. & G. S. in 1935) -----

Marietta, 120 ft. NE. of rd. crossing E. of sta., 30 ft. N. of track, 12 ft. W. of fence, 2 ft. N. of telephone pole; standard iron post with bronze cap stamped "551" (recovered by U. S. C. & G. S. in 1935) -----

Marietta, 3.5 mi. W. of, 0.8 mi. E. of New Philadelphia, 20 ft. NW. of center of sec. 24, T. 6 N., R 1 W., in SW. angle of rd. crossing and junction of rd. S., 40 ft. S. of tracks; standard iron post with bronze cap stamped "671.3" -----

New Philadelphia, 0.2 mi. W. thence 1.4 mi. S. from, 2.9 mi. N. thence 1.0 mi. E. from Adair, near $N\frac{1}{4}$ cor. sec. 35, T. 6 N., R. 1 W., 15 ft. S. and 55 ft. W. from crossroads, 4 ft. S. and 6 ft. W. from center of S. head wall of concrete culvert; standard iron post with bronze cap stamped "676.8" ⁶⁴ -----

Feet
649.585

494.681

549.750

670.481

676.093

[Continued in Macomb quadrangle, line 1]

⁶⁴ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Z 56 1935," elevation 660.570 ft.

2. From point 5.4 miles northwest of Duncan Mills along roads generally west to Bernadotte, thence northwest to point on Toledo, Peoria & Western Railroad 0.2 mile northwest of Seville (by S. R. Archer in 1910)

[Continued from Havana quadrangle, line 4]

	Feet
Duncan Mills, 5.7 mi. NW. of, 4.3 mi. SE. of Bernadotte, 100 ft. S. of Elrod Bridge over Spoon River, near NE. cor. sec. 27, T. 5 N., R. 2 E., on S. side of main rd., opposite rd. N., at S. fence line; standard iron post with bronze cap stamped "466"-----	465. 358
Bernadotte, 60 ft. NW. of crossroads at center of, in SE. corner of park, 15 ft. inside hitching rack; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1910 480" (recovered in 1919)-----	479. 166
Bernadotte, 0.6 mi. N. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 18, T. 5 N., R. 2 E., in SE. angle of junction of T-rd. E., outside yard fence, in root on N. side of maple tree; nail-----	482. 48
Bernadotte, 1.4 mi. N. of, near S $\frac{1}{4}$ cor. sec. 7, T. 5 N., R. 2 E., in NE. angle of junction of rd. E., in root on S. side of oak tree; nail-----	641. 87
Bernadotte, 2.4 mi. NW. of, near W $\frac{1}{4}$ cor. sec. 7, T. 5 N., R. 2 E., at bend N. along range line, on W. side of rd., in line with rd. E., at W. fence line; standard iron post with bronze cap stamped "501"-----	500. 117
Bernadotte, 5.3 mi. NW. of, 0.2 mi. NW. thence 2.8 mi. SE. from Seville, about 0.15 mi. S. of center of sec. 36, T. 6 N., R. 1 E., 35 ft. SE. of rd. junction, inside S. fence line, 10 ft. E. of mail box; standard iron post with bronze cap stamped "672"-----	671. 549
3. From Bernadotte west and southwest along roads to Table Grove, thence south and southwest along Chicago, Burlington & Quincy Railroad to road crossing 2.5 miles southwest of Vermont, thence along roads west 0.3 mile, thence south 0.5 mile, thence generally east to point 1.6 miles north and 1.1 miles west from Astoria (by S. L. Parker in 1919)	
Bernadotte, 1.2 mi. W. of, in NW $\frac{1}{4}$ sec. 24, T. 5 N., R. 1 E., on N. side of rd., in line of wire fence, in root on S. side of 18-in. forked walnut tree; copper nail and washer-----	641. 20
Bernadotte, 2.5 mi. W. of, about 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 23, T. 5 N., R. 1 E., 10 ft. E. of SE. corner of junction of rd. S., 1 ft. N. of wire fence; standard iron post with bronze cap stamped "1919 685"-----	684. 726
Bernadotte, 2.5 mi. W. thence 1.1 mi. S. from, 50 ft. S. of junction of T-rd. W., on E. side of rd., 15 ft. E. of fence line, in root on W. side of 26-in. white-oak tree; copper nail and washer-----	673. 44
Bernadotte, 2.5 mi. W. thence 2.6 mi. SW. from, 2.5 mi. E. of Table Grove, about 0.15 mi. S. and 20 ft. E. from center of sec. 34, T. 5 N., R. 1 E., on E. side of N.-S. rd., opposite T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 13 1916 688"-----	687. 346
Table Grove, 1.4 mi. E. of, in SW $\frac{1}{4}$ sec. 33, T. 5 N., R. 1 E., on N. side of rd., at bend, in fence line, in root on S. side of 22-in. ash tree; copper nail and washer-----	685. 07
Table Grove, 500 ft. E. of overhead bridge crossing Chicago, Burlington & Quincy R. R., on N. side of rd., 30 ft. N. of SW. corner of junction of T-rd. S., on W. end of 10-in. steel drain under lane to cemetery; highest point-----	692. 44

	Feet
Table Grove, 255 ft. SE. of R. R. sta., 25 ft. S. of center line of public rd.; standard iron post with bronze cap stamped "1919 703" (recovered by U. S. C. & G. S. in 1935)-----	702.751
Table Grove, 3.2 mi. S. of, in SW. angle of intersection of rd., 1.9 mi. N. of Vermont, 30 ft. S. of center line of rd., 40 ft. W. of track; standard iron post with bronze cap stamped "1919 670" (recovered by U. S. C. & G. S. in 1935)-----	669.789
Vermont, 1.2 mi. N. of, at overhead bridge, on W. side of track, on top of S. concrete pier supporting bridge; chiseled square-----	686.32
Vermont, in center of town, at S. entrance to public park, 15 ft. W. of sidewalk, 10 ft. N. of edge of street; standard iron post with bronze cap stamped "1919 697" (recovered by U. S. C. & G. S. in 1935)-----	696.665
Vermont, 2.8 mi. S. and 1.2 mi. W. from, near E $\frac{1}{4}$ cor sec. 12, T. 3 N., R. 1 W., in NW. angle of junction of T-rd. N., 20 ft. NE. of small wooden bridge over drain; standard iron post with bronze cap stamped "1919 595" ⁵⁵ -----	594.879
Vermont, 2.8 mi. S. and 0.2 mi. W. from, near W $\frac{1}{4}$ cor. sec. 8, T. 3 N., R. 1 E., in NE corner of junction of T-rd. N., in root on S. side of 28-in. white-oak tree; copper nail and washer (recovered in 1923)-----	661.09
Vermont, 2.8 mi. S. and 0.8 mi. E. from, near W $\frac{1}{4}$ cor. sec. 9, T. 3 N., R. 1 E., 50 ft. S. of SE. corner of junction of T-rd. E., in fence line, in root on W. side of 28-in. soft-maple tree; copper nail and washer-----	662.91
Vermont, 2.8 mi. S. and 1.8 mi. E. from, 1.9 mi. N. and 1.8 mi. W. from Astoria, near E $\frac{1}{4}$ cor. sec. 9, T. 3 N., R. 1 E.; standard iron post with bronze cap stamped "1919 632" ⁵⁶ -----	630.114
Astoria, 2.0 mi. N. and 1.2 mi. W. from, about 0.2 mi. NE. of center of sec. 10, T. 3 N., R. 1 E., 100 ft. W. of junction of N.-S. rd., 10 ft. S. of fence line, in root on S. side of 12-in. lone hickory tree; copper nail and washer-----	612.82

[Continued in Beardstown quadrangle, line 2]

4. From point near center of sec. 2, T. 3 N., R. 2 E., along roads alternately west and north to Ipava, thence generally north to Bernadotte (by S. L. Parker in 1919)

[Continued from Havana quadrangle, line 6]

T. 3 N., R. 2 E., about 0.3 mi. SW. of center of sec. 2, 5 ft. E. of NE. corner of junction of T-rd. N.; standard iron post with bronze cap stamped "1919 634"-----	633.278
T. 4 N., R. 2 E., about 0.25 mi. E. of SW. cor. sec. 35, 40 ft. W. of junction of E.-W. rd., on N. side of rd., in fence line, in root on S. side of 18-in. boxwood tree; copper nail and washer-----	637.43
T. 4 N., R. 2 E., near NW. cor. sec. 35, at Wilkins Ford over Otter Creek; surface of water May 29, 1919-----	475.9
T. 4 N., R. 2 E., near W $\frac{1}{4}$ cor. sec. 26, 50 ft. S. of SE. corner of crossroads, 2 ft. W. of fence line, in root on N. side of 16-in. elm tree; copper nail and washer-----	515.41

⁵⁵ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "K 56 1935," elevation 639.343 ft.

⁵⁶ In 1936 this bench mark was moved 35 ft. south of this position and reset at an elevation 1.186 ft. lower than that originally determined. The figures given represent the new elevation.

	Feet
T. 4 N., R. 2 E., 0.2 mi. N. of SE. cor. sec. 22, 50 ft. N. of junction of T-rd. E., on W. side of rd., 2 ft. E. of wire fence, in front of lawn, in root on W. side of 30-in. apple tree; copper nail and washer-----	583.39
T. 4 N., R. 2 E., near W $\frac{1}{4}$ cor. sec. 14, 1.8 mi. S. and 3.8 mi. E. from Ipava, 6 ft. N. of NE. corner of crossroads; standard iron post with bronze cap stamped "1919 598"-----	596.827
Ipava, 1.8 mi. S. and 3.3 mi. E. from, at center of sec. 15, T. 4 N., R. 2 E., at center of crossroads, in root on E. side of 36-in. lone red-oak tree; copper nail and washer-----	604.94
Ipava, 0.7 mi. S. and 3.3 mi. E. from, 4.0 mi. W. of Duncan Mills, near center of sec. 10, T. 4 N., R. 2 E., 100 ft. N. of junction of T-rd. E., 20 ft. E. of fence line, in root on W. side of 11-in. hickory tree; copper nail and washer-----	620.50
Ipava, 2.9 mi. E. of, near SW. cor. sec. 3, T. 4 N., R. 2 E., at junction of T-rd. W., on E. side of rd., 1 ft. W. of fence line; standard iron post with bronze cap stamped "1919 636"-----	634.903
Ipava, 1.9 mi. E. of, near SW. cor. sec. 4, T. 4 N., R. 2 E., in NE. corner of crossroads, on E. end of 10-in. steel drain pipe under rd.; highest point-----	634.92
Ipava, 0.9 mi. E. of, 120 ft. S. of NW. cor. sec. 8, T. 4 N., R. 2 E., 120 ft. S. of SE. corner of junction of N.-S. rd., 2 ft. W. of fence line, in root on W. side of 36-in. lone elm tree; copper nail and washer-----	656.62
Ipava, in front of Chicago, Burlington & Quincy R. R. sta.; top of N. rail-----	656.4
Ipava, 200 ft. W. of post office, in NW. corner of park; standard iron post with bronze cap stamped "1919 656"-----	655.40
Ipava, 2.2 mi. N. of, 1.0 mi. SW. thence 1.0 mi. S. from Bernadotte, near SW. cor. sec. 30, T. 5 N., R. 2 E., 5 ft. N. of NE. corner of crossroads; standard iron post with bronze cap stamped "1919 644"-----	642.90
Bernadotte, 1.0 mi. SW. of, near N. cor. secs. 25 and 30, T. 5 N., Rs. 1 and 2 E., at jog in rd., 10 ft. E. of N.-S. wire fence, 15 ft. S. of E.-W. wire fence, in root on E. side of 18-in. walnut tree; copper nail and washer-----	643.03

VIRGINIA QUADRANGLE

[Latitude $39^{\circ}45'$ - $40^{\circ}00'$; longitude $90^{\circ}00'$ - $90^{\circ}15'$]

CASS AND MORGAN COUNTIES

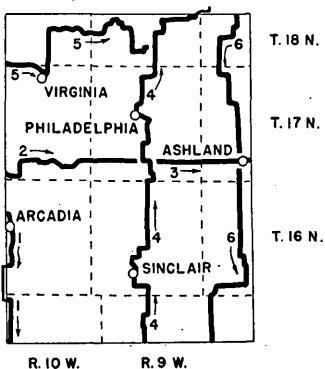


FIGURE 152.—Lines of leveling in Virginia quadrangle.

1. From point 0.8 mile northwest of Arcadia generally south along roads to point 1 mile west and 1.1 miles north from Jacksonville (by C. E. Walker in 1927)

[Continued from Arenzville quadrangle, line 3]

Arcadia, in SE. angle of junction of rd. NE., opposite Odd Fellows Hall, at NW. corner of property of S. S. Clark, in concrete post; standard tablet stamped "T T Sta No 2 S 1927"-----
 Reference mark, 50 ft. S. and 20 ft. E. from rd. junction, at sidewalk of J. J. Clark, on end of walk; chiseled square-----
 Arcadia, 1.1 mi. S. of, 0.2 mi. E. of center of sec. 20, T. 16 N., R. 10 W., at SW. corner of bridge over Indian Creek, on concrete abutment; chiseled square-----
 Arcadia, 2.2 mi. S. of, 0.2 mi. E. of center of sec. 29, T. 16 N., R. 10 W., in NW. angle of offset crossroads, in line with rd. S., in root on E. side of 10-in. elm tree; copper nail and washer-----

Feet
605.682
604.90
518.66
606.10

[Jogs into Arenzville quadrangle, line 4]

Jacksonville, 1.0 mi. W. thence 2.5 mi. N. from, 0.25 mi. N. of SE. cor. sec. 6, T. 15 N., R. 10 W., 15 ft. NW. of crossing of Chicago, Burlington & Quincy R. R., 6 ft. N. of N. rail, on top of 24-in. tile culvert; chiseled cross-----
 Jacksonville, 1.0 mi. W. thence 1.1 mi. N. from, 0.2 mi. S. of NW. cor. sec. 17, T. 15 N., R. 10 W., on E. head wall of concrete bridge over creek; chiseled square-----

610.67
564.43

[Connects with line 4 in Winchester quadrangle]⁶⁷

⁶⁷ This line cuts the northwest corner of Jacksonville quadrangle but no bench marks were set in that portion of the line.

2. From point 7.5 miles east of Arenzville generally east along roads to road junction 5 miles west of Ashland (by L. W. Miller in 1928)

[Connects with line 3 in Arenzville quadrangle]

Arenzville, 8.3 mi. E. of, 1.9 mi. W. thence 0.9 mi. S. from Little Indian, in SW $\frac{1}{4}$ sec. 33, T. 17 N., R. 10 W., 36 ft. N. and 23 ft. W. from T-junction of N.-S. rd., in root on SE. side of 15-in. hackberry tree; copper nail and washer-----	Feet 598. 68
Little Indian, 1.9 mi. W. of, 4.6 mi. SW. of Virginia, 0.25 mi. E. of NW. cor. sec. 33, T. 17 N., R. 10 W., in SE. angle of junction of T-rd. E., at fence corner, in root on N. side of 36-in. elm tree; copper nail and washer-----	597. 12
Little Indian, 0.8 mi. W. of, 4.4 mi. along U. S. Highway 67 S. of Virginia, 0.1 mi. S. and 0.25 mi. E. from NW. cor. sec. 34, T. 17 N., R. 10 W., 24 ft. S. and 33 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T 10 JLS 1927"-----	603. 696
Little Indian, 0.3 mi. W. of, 0.2 mi. W. of NE. cor. sec. 34, T. 17 N., R. 10 W., on W. end of N. head wall of concrete culvert over creek; chiseled square-----	587. 14
Little Indian, in front of sta.; top of rail of main track-----	602. 5
Little Indian, 0.2 mi. E. of, about 0.3 mi. NW. of N.-S. half-section line in sec. 26, T. 17 N., R. 10 W., on SW. side of rd., in root on NE. side of 30-in. elm tree; copper nail and washer-----	602. 33
Little Indian, 1.1 mi. E. of, 0.3 mi. S. of NE. cor. sec. 35, T. 17 N., R. 10 W., 100 ft. S. and 65 ft. E. from junction of T-rd. S., in front of Zion Church, on NE. corner of concrete porch; chiseled square-----	588. 67
Little Indian, 2.3 mi. E. of, 8.3 mi. W. of Ashland, near NE. cor. sec. 36, T. 17 N., R. 10 W., 15 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 11 JLS 1927"-----	612. 983
Reference mark, 35 ft. N. and 125 ft. E. from tablet, on N. side of rd., in root on W. side of 10-in. hackberry tree; copper nail and washer-----	613. 75
Ashland, 7.5 mi. W. of, 0.25 mi. W. of SE. cor. sec. 30, T. 17 N., R. 9 W., 50 ft. N. and 20 ft. W. from junction of T-rd. N., in root on E. side of 60-in. elm tree; copper nail and washer-----	606. 05
Ashland, 6.8 mi. W. of, near S $\frac{1}{4}$ cor. sec. 29, T. 17 N., R. 9 W., 40 ft. N. and 25 ft. W. from crossroads, in root on S. side of 7-in. catalpa tree; copper nail and washer-----	618. 92
Ashland, 6.0 mi. W. of, 0.25 mi. E. of NW. cor. sec. 33, T. 17 N., R. 9 W., 17 ft. S. and 12 ft. W. from junction of T-rd. S., on W. end of steel culvert; highest point-----	618. 97
Ashland, 5.0 mi. W. of, 0.25 mi. E. of NW. cor. sec. 34, T. 17 N., R. 9 W., 18 ft. S. and 32 ft. E. from junction of T-rd. S., near NW. corner of dooryard of farmhouse, on bank, in concrete post; standard tablet stamped "T T Sta No 12 JLS 1927"-----	620. 637
3. From road junction 5 miles west of Ashland east along road to Ashland (by L. V. Johnson in 1928)	
Ashland, 4.2 mi. W. of, near S. side SW $\frac{1}{4}$ sec. 26, T. 17 N., R. 9 W., 30 ft. N. of rd., in root on W. side of 24-in. poplar tree; copper nail and washer-----	624. 99
Ashland, 3.3 mi. W. of, near NE. cor. sec. 35, T. 17 N., R. 9 W., on SE. end of SE. wing wall of small culvert; chiseled square-----	612. 41

Ashland, 2.3 mi. W. of, near SE. cor. sec. 25, T. 17 N., R. 9 W., 10 ft. N. and 36 ft. W. from crossroads, near corner of hedge fence, in concrete post; standard tablet stamped "T T Sta No 13 JLS 1927"-----
 Reference mark, 30 ft. S. and 80 ft. E. from crossroads, on S. side of rd., in root on N. side of 15-in. hedge tree; copper nail and washer-----
 Ashland, 1.5 mi. W. of, 0.2 mi. W. of SE. cor. sec. 30, T. 17 N., R. 8 W., on E. end of N. concrete head wall of culvert; chiseled square-----
 Ashland, about 630 ft. S. and 560 ft. E. from Chicago & Alton R. R. sta., 30 ft. N. and 18 ft. E. from intersection of East Editor Street and State Highway 125, on NW. corner of sidewalk step; chiseled square (recovered in 1932)-----

Feet
 631.327
 630.69
 630.22
 635.29

[Continued in Tallula quadrangle, line 6]

4. From point 1.5 miles east and 2 miles north from Arnold generally north along roads by way of Sinclair to Philadelphia, thence alternately north and east to point 2.2 miles west and 0.2 mile south from Newmansville (by W. E. Baird in 1928)

[Continued from Jacksonville quadrangle, line 8]

Arnold, 1.5 mi. E. thence 3.0 mi. N. from, N. of center of NW $\frac{1}{4}$ sec. 9, T. 15 N., R. 9 W., 0.2 mi. N. of Mauvaise Terre Creek, on E. side of rd., in root of 10-in. walnut tree; copper nail and washer-----
 Arnold, 1.5 mi. E. thence 3.5 mi. N. from, 2.2 mi. S. and 0.8 mi. E. from Sinclair, 0.3 mi. S. of center of sec. 4, T. 15 N., R. 9 W., 30 ft. S. of junction of T-rd. N., 2 ft. SW. of fence corner, in concrete post; standard tablet stamped "1 B 1928"-----
 Reference mark, 180 ft. N. and 20 ft. E. from rd. junction, in root on W. side of large oak tree; copper nail and washer-----
 Sinclair, 1.2 mi. S. and 0.8 mi. E. from, near N $\frac{1}{4}$ cor. sec. 4, T. 15 N., R. 9 W., 40 ft. S. and 25 ft. E. from junction of rd. E., in root on W. side of 36-in. elm tree; copper nail and washer-----
 Sinclair, 0.4 mi. S. of, about 0.2 mi. N. of E.-W. rd., on E. side of rd., 10 ft. N. and 50 ft. W. from NW. corner of residence of H. E. Swain, in root on W. side of 24-in. maple tree; copper nail and washer-----
 Sinclair, at crossing of Chicago & Alton R. R.; top of S. rail-----
 Sinclair, 0.4 mi. N. of, 900 ft. E. of W $\frac{1}{4}$ cor. sec. 28, T. 16 N., R. 9 W., 25 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "2 B 1928"-----
 Reference mark, 140 ft. E. of right-angle turn in rd., 50 ft. S. and 180 ft. W. from Hebron Methodist Episcopal Church, on S. wall of concrete culvert; chiseled square-----
 Sinclair, 1.4 mi. N. and 0.4 mi. E. from, near center of sec. 21, T. 16 N., R. 9 W., 30 ft. N. and 50 ft. E. from right-angle turn E. in rd., in root on S. side of large elm tree; copper nail and washer-----
 Sinclair, 3.0 mi. N. and 0.9 mi. E. from, about 600 ft. N. of SW. cor. sec. 15, T. 16 N., R. 9 W., 830 ft. N. of T-rd. E., 16 ft. N. and 10 ft. E. from center of bridge over Indian Creek, on concrete wing wall; chiseled square-----
 Sinclair, 3.9 mi. N. and 0.9 mi. E. from, 5.0 mi. W. thence 3.5 mi. S. from Ashland, near SW. cor. sec. 10, T. 16 N., R. 9 W., 20 ft. N. and 35 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "3 B 1928"-----

629.74
 635.893
 631.99
 634.51
 627.48
 623.3
 595.122
 606.05
 608.12
 559.75
 609.401

876 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Reference mark, 60 ft. N. and 40 ft. E. from rd. junction, in root on S. side of 42-in. oak tree; copper nail and washer	Feet 608.32
Ashland, 5.0 mi. W. thence 2.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 3, T. 16 N., R. 9 W., 140 ft. N. and 30 ft. E. from junction of T-rd. W., in root on W. side of large maple tree; copper nail and washer	611.51
Ashland, 5.0 mi. W. thence 1.0 mi. S. from, in SW $\frac{1}{4}$ sec. 34, T. 17 N., R. 9 W., 350 ft. S. of Eckman Chapel, 50 ft. N. and 40 ft. E. from junction of T-rd. E., in root on S. side of walnut tree; copper nail and washer	621.04
Ashland, 5.5 mi. W. of, 0.8 mi. SE. thence 2.4 mi. S. from Philadelphia, 0.25 mi. W. of SE. cor. sec. 28, T. 17 N., R. 9 W., 150 ft. N. and 15 ft. W. from crossroads, in root on E. side of 18-in. elm tree; copper nail and washer	617.88
Philadelphia, 0.8 mi. SE. thence 1.2 mi. S. from, near SW. cor. sec. 22, T. 17 N., R. 9 W., 10 ft. N. and 80 ft. E. from right-angle turn N. in main rd., in root on S. side of 24-in. hackberry tree; copper nail and washer	631.01
Philadelphia, 0.8 mi. SE. thence 0.3 mi. S. from, near NE. cor. sec. 21, T. 17 N., R. 9 W., 130 ft. S. and 25 ft. W. from bend in rd., in root on W. side of large walnut tree; copper nail and washer	629.94
Philadelphia, 20 ft. S. and 40 ft. W. from crossing of State highway 125 and NE-SW. rd., in concrete post; standard tablet stamped "4 B 1928"	626.178
Reference mark, 15 ft. S. and 10 ft. E. from crossroads, on N. end of concrete culvert; chiseled square	627.11
Philadelphia, 0.8 mi. N. and 0.3 mi. E. from, near center of SE $\frac{1}{4}$ sec. 9, T. 17 N., R. 9 W., 1,320 ft. N. of right-angle turn N. in rd., on E. side of rd., on concrete base of N. concrete gatepost; chiseled square	629.04
Philadelphia, 1.9 mi. N. and 0.3 mi. E. from, 0.4 mi. N. of center of S. side SE $\frac{1}{4}$ sec. 4, T. 17 N., R. 9 W., 700 ft. S. of crossroads, 100 ft. N. and 45 ft. W. from junction of T-lane W. to farmhouse, in root on E. side of 36-in. maple tree; copper nail and washer	615.61
Philadelphia, 2.0 mi. N. and 0.8 mi. E. from, 1.4 mi. W. thence 2.3 mi. S. from Sylvan, near center of sec. 3, T. 17 N., R. 9 W., 30 ft. N. and 15 ft. E. from junction of T-rd. N., in root on E. side of 18-in. maple tree; copper nail and washer	621.896
Reference mark, 30 ft. S. and 470 ft. W. from rd. junction, in root on E. side of 18-in. maple tree; copper nail and washer	621.21
Sylvan, 1.4 mi. W. thence 1.0 mi. S. from, 0.25 mi. N. of center of sec. 34, T. 18 N., R. 9 W., 1,470 ft. N. of junction of one T-rd. W., 1,180 ft. S. of junction of another T-rd. W., on E. side of rd., in root on NW. side of 12-in. maple tree; copper nail and washer	617.00
Sylvan, 1.4 mi. W. of, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 27, T. 18 N., R. 9 W., 36 ft. N. and 150 ft. E. from junction of T-rd. E., 40 ft. E. of front yard gate at farm house of Ezra Louges, in fence corner, in concrete post; standard tablet stamped "T T Sta. 21 JLS 1927"	612.394
Reference mark, 35 ft. N. and 100 ft. E. from rd. junction, in root on SE. side of 18-in. hickory tree; copper nail and washer	612.05
Sylvan, 1.0 mi. W. thence 0.5 mi. N. from, 0.25 mi. N. of SW. cor. sec. 23, T. 18 N., R. 9 W., 45 ft. E. of right-angle turn W. in rd., in root on W. side of large poplar tree; copper nail and washer	614.70

Sylvan, 0.2 mi. W. thence 0.8 mi. N. from, 3.3 mi. W. and 0.5 mi. S. from Newmansville, 0.25 mi. E. of center of sec. 23, T. 18 N., R. 9 W., 15 ft. N. and 65 ft. E. from junction of T-rd. S., in root on E. side of 24-in. oak tree; copper nail and washer-----

Feet
607.40

[Continued in Chandlerville quadrangle, line 6]

5. From point 2.8 miles northwest of Virginia southeast along U. S. Highway 67 to Virginia, thence north 2.8 miles along State Highway 78, thence generally east and south to point 1.4 miles west and 1 mile south from Sylvan (by J. B. Leachman and L. V. Johnson in 1928)

[Connects with line 6 in Arenzville quadrangle]

Virginia, 2.3 mi. NW. of Cass County courthouse, 0.25 mi. W. of SE. cor. sec. 32, T. 18 N., R. 10 W., 30 ft. S. of Baltimore & Ohio R. R. track, 100 ft. S. of highway, in root of locust tree; copper nail and washer-----

627.61

Virginia, 1.3 mi. NW. of, 0.3 mi. W. of SE. cor. sec. 33, T. 18 N., R. 10 W., 30 ft. N. of highway, on W. side of culvert; chiseled square-----

626.87

Virginia, at sta. platform, on NW. corner of concrete curb; chiseled square (B. & O. R. R. B. M.)-----

623.63

Virginia, on N. side of courthouse, 3 ft. N. and 2 ft. E. from steps, in concrete post; standard tablet stamped "1 JL 1928"-----

621.576

Reference mark, on N. side of courthouse square, at end of concrete walk from courthouse, on curb; chiseled square-----

620.33

Virginia, 1.2 mi. N. of, about 800 ft. N. of center of SE $\frac{1}{4}$ sec. 34, T. 18 N., R. 10 W., 25 ft. E. of rd., in root on S. side of oak tree; copper nail and washer-----

611.97

Virginia, 1.8 mi. N. of, 0.25 mi. W. of SE. cor. sec. 27, T. 18 N., R. 10 W., 200 ft. N. and 50 ft. E. from junction of T-rd. W., in root on NE. side of poplar tree; copper nail and washer-----

613.13

Virginia, 2.8 mi. N. of, 5.4 mi. SW. of Chandlerville, 0.25 mi. W. of SE. cor. sec. 22, T. 18 N., R. 10 W., 5 ft. N and 50 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 19 JLS 1927"-----

622.671

Reference mark, 10 ft. N. and 40 ft. W. from crossroads, in root of elm tree; copper nail and washer-----

622.28

Virginia, 2.8 mi. N. thence 0.9 mi. E. from, about 500 ft. E. of S $\frac{1}{4}$ cor. sec. 23, T. 18 N., R. 10 W., about 350 ft. E. of large ravine, about 200 ft. E. of lane N. to farmhouse, 20 ft. N. of rd., in root on W. side of lone Osage-orange tree; copper nail and washer-----

605.68

Virginia, 2.8 mi. N. thence 1.9 mi. E. from, in NW $\frac{1}{4}$ sec. 25, T. 18 N., R. 10 W., 150 ft. E. of lane S. to farmhouse, about 200 ft. W. of wooden culvert, 30 ft. S. of rd., in root on N. side of 12-in. willow tree; copper nail and washer-----

526.26

Virginia, 2.8 mi. N. thence 2.8 mi. E. from, near center of NW $\frac{1}{4}$ sec. 30, T. 18 N., R. 9 W., 18 ft. S. and 40 ft. W. from junction of T-rd. S. to Anderson, at Williamson farmhouse, in concrete post; standard tablet stamped "T T Sta No 20 JLS 1927"-----

613.351

Reference mark, 40 ft. N. and 65 ft. W. from rd. junction, in root on S. side of 36-in. maple tree; copper nail and washer-----

613.08

Virginia, 2.8 mi. N. thence 3.8 mi. E. from, 0.3 mi. N. of SE. cor. sec. 19, T. 18 N., R. 9 W., about 100 ft. W. of angle in rd., 300 ft. E. of top of large ravine, 15 ft. N. of rd., in root on S. side of 18-in. cottonwood tree; copper nail and washer-----

598.34

878 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Virginia, 2.8 mi. N. thence 4.6 mi. NE. from, 0.5 mi. E. of Palmerton, near center of NW $\frac{1}{4}$ sec. 20, T. 18 N., R. 9 W., 375 ft S. of T-rd. W., on W. side of rd., on N. end of concrete head wall of culvert; chiseled square (recovered in 1932)-----	Feet 591. 96
Virginia, 2.8 mi. N. thence 5.6 mi. E. from, S. of center of SE $\frac{1}{4}$ sec. 20, T. 18 N., R. 9 W., 460 ft. S. of angle from E. to S. in rd., in root on W. side of 30-in. oak tree; copper nail and washer-----	613. 82
Virginia, 2.8 mi. N. thence 6.6 mi. E. from, 4.0 mi. N. and 0.3 mi. W. from Philadelphia, in NW $\frac{1}{4}$ sec. 28, T. 18 N., R. 9 W., about 430 ft. N. of lane E. to farmhouse, 20 ft. E. of rd., in root on E. side of lone 15-in. oak tree; copper nail and washer-----	612. 38
Philadelphia, 3.5 mi. N. and 0.6 mi. E. from, near SE cor. sec. 28, T. 18 N., R. 9 W., 20 ft. W. of angle in rd., in line with rd. E., in root on E. side of 24-in. hickory tree; copper nail and washer-----	611. 48
6. From point 0.3 mile south of Newmansville generally south along roads and State Highway 123 to point 1.8 miles north of Alexander (by S. R. Archer in 1932)	
[Continued from Chandlerville quadrangle, line 9]	
Newmansville, 0.6 mi. S. of, near E $\frac{1}{4}$ cor. sec. 20, T. 18 N., R. 8 W., 35 ft. N. and 35 ft. W. from crossroads, in root on E. side of 60-in. cottonwood tree; copper nail and washer-----	583. 35
Newmansville, 1.4 mi. S. and 0.3 mi. W. from, about 580 feet S. of center of NE $\frac{1}{4}$ sec. 29, T. 18 N., R. 8 W., about 750 ft. N. of T-junction of E-W. rd., on W. side of rd., in field, in root on W. side of 36-in. oak tree; copper nail and washer-----	616. 68
Newmansville, 1.5 mi. S. and 1.1 mi. W. from, near W $\frac{1}{4}$ cor. sec. 29, T. 18 N., R. 8 W., 160 ft. E. of right-angle turn S. in rd., on N. side of rd., in root on SW. side of 48-in. cottonwood tree; copper nail and washer-----	614. 37
Newmansville, 2.0 mi. S. and 1.1 mi. W. from, 1.3 mi. W. and 6.0 mi. N. from Ashland, near E. cor. secs. 29 and 32, T. 18 N., R. 8 W., 25 ft. S. and 17 ft. E. from junction of T-rd. W., 17 ft. S. of fence corner, in concrete post; standard tablet stamped "5 A 1932"-----	626. 408
Reference mark, 5 ft. E. of rd. junction, in root on NW. side of 30-in. hickory tree; copper nail and washer-----	626. 12
Ashland, 1.3 mi. W. and 5.3 mi. N. from, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 32, T. 18 N., R. 8 W., 50 ft. N. of bridge, on E. side of rd., on top of NE. corner of concrete well curb under windmill; chiseled square-----	604. 60
Ashland, 1.3 mi. W. and 4.5 mi. N. from, near E $\frac{1}{4}$ cor. sec. 6, T. 17 N., R. 8 W., 250 ft. S. of junction of T-rd. E., on W. side of rd., in field, in root on S. side of 24-in. elm tree; copper nail and washer-----	634. 21
Ashland, 0.8 mi. W. and 4.5 mi. N. from, near center of sec. 5, T. 17 N., R. 8 W., on N. side of rd., opposite T-rd. S., at fence corner, in root on W. side of forked hedge tree; copper nail and washer-----	627. 34
Ashland, 0.8 mi. W. and 3.7 mi. N. from, N. of center of sec. 8, T. 17 N., R. 8 W., in root on S. end of E. head wall of concrete culvert; chiseled square-----	623. 85
Ashland, 0.8 mi. W. and 3.0 mi. N. from, near S $\frac{1}{4}$ cor. sec. 17, T. 17 N., R. 8 W., 30 ft. S. of T-junction of E-W. rd., in NE. corner of yard of farmhouse, in root on N. side of 48-in. sycamore tree; copper nail and washer-----	636. 23

	Feet
Ashland, 0.3 mi. W. thence 3.0 mi. N. from, near NW. cor. sec. 16, T. 17 N., R. 8 W., 33 ft. S. and 25 ft. E. from junction of T-rd. S., 11 ft. S. of fence corner, in concrete post; standard tablet stamped "6 A 1932"-----	637. 323
Ashland, 0.3 mi. W. thence 2.0 mi. N. from, near SW. cor. sec. 16, T. 17 N., R. 8 W., on E. side of rd., at fence corner, in root on S. side of 12-in. hedge tree; copper nail and washer-----	639. 52
Ashland, 0.3 mi. W. thence 1.3 mi. N. from, 0.25 mi. N. of SE. cor. sec. 20, T. 17 N., R. 8 W., in NW. angle of junction of T-rd. W., in root on W. side of 30-in. elm tree; copper nail and washer-----	640. 08
Ashland, in NW. part of, opposite N. end of Alta Street, at S. entrance to high school, in top of W. end of stone doorsill; standard tablet stamped "7 A 1932"-----	635. 143
Reference mark, at W. side of S. entrance to high school, on top of square concrete block, 1.3 ft. above sidewalk; chiseled square-----	635. 38
Ashland, at B. & O. R. R. sta., on NE. corner of platform; chiseled square (B. & O. R. R. B. M.)-----	636. 58
Ashland, in SW. part of, 45 ft. NE. of intersection of Alta Street and State Highway 123, 45 ft. NE. of junction of private rd. E., 335 ft. NE. of junction of rd. S., on top of E. head wall of concrete culvert under highway; chiseled square-----	634. 18
Ashland, 0.3 mi. W. thence 1.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 4, T. 16 N., R. 8 W., 120 ft. N. of crossroads, on E. side of rd., at fence line, in root on N. side of 12-in. elm tree; copper nail and washer-----	624. 87
Ashland, 0.3 mi. W. thence 2.3 mi. S. from, 1.2 mi. E. thence 0.3 mi. S. from Prentice, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 9, T. 16 N., R. 8 W., 22 ft. S. and 34 ft. E. from junction of T-rd. E., 9 ft. E. of fence corner, in concrete post; standard tablet stamped "8 A 1932"-----	618. 078
Reference mark, 190 ft. N. of junction of T-rd. E., on W. side of rd., in root on W. side of 12-in. wild-cherry tree; copper nail and washer-----	614. 92
Ashland, 0.3 mi. W. thence 3.3 mi. S. from, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 17, T. 16 N., R. 8 W., in NW. angle of junction of T-rd. W., 5 ft. NE. of SE. corner of yard fence, in root on ESE. side of 24-in. elm tree; copper nail and washer-----	633. 81
Ashland, 0.3 mi. W. thence 4.6 mi. S. from, near W $\frac{1}{4}$ cor. sec. 21, T. 16 N., R. 8 W., at offset crossroads, 22 ft. N. and 38 ft. E. from junction of rd. N., 22 ft. N. and 23 ft. E. from junction of rd. S., 18 ft. E. of fence corner, in line with fence on E. side of rd. S., in concrete post; standard tablet stamped "9 A 1932"-----	635. 364
Reference mark, 170 ft. N. of crossroads, on top of S. end of E. head wall of concrete culvert; chiseled square-----	633. 99
Ashland, 0.3 mi. W. thence 5.5 mi. S. from, 0.17 mi. S. and 0.2 mi. E. from NW. cor. sec. 28, T. 16 N., R. 8 W., 60 ft S. of bridge, on E. side of rd., in root on NNW. side of 10-in. locust tree; copper nail and washer-----	613.00
Ashland, 0.3 mi. W. thence 6.6 mi. S. from, 0.17 mi. S. and 0.25 mi. E. from NW. cor. sec. 33, T. 16 N., R. 8 W., 0.3 mi. N. of E.-W. rd., on W. side of rd., in root on NE. side of 24-in. hackberry tree; copper nail and washer-----	637. 42

880 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Ashland, 0.8 mi. W. and 6.9 mi. S. from, about 475 ft. W. of center of sec. 32, T. 16 N., R. 8 W., 70 ft. S. of rd., 110 ft. W. of driveway to farmhouse, in root on NE. side of 48-in. cottonwood tree, northernmost tree of westernmost of two rows of trees; copper nail and washer	<i>Feet</i> 643.26
Ashland, 1.5 mi. W. and 6.9 mi. S. from, 4.8 mi. N. of Alexander, about 700 ft. E. of center of sec. 31, T. 16 N., R. 8 W., 48 ft. N. and 30 ft. E. from junction of State Highway 123, 25 ft. N. of intersection of prolonged lines of yard fence, 12 in. W. of yard fence, 24 in. NE. of concrete highway right-of-way post, in concrete post; standard tablet stamped "10 A 1932"	640.777
Reference mark, in SE. corner of rd. junction, on top of S. head wall of concrete culvert under rd. E.; chiseled square	641.36
Alexander, 4.3 mi. N. of, 425 ft. E. of NW. cor. sec. 6, T. 15 N., R. 8 W., 50 ft. SW. of junction of rd. W., on top of SW. end of NW. head wall of concrete culvert under highway; chiseled square	642.28
Alexander, 3.3 mi. N. of, 0.2 mi. N. of SE. cor. sec. 1, T. 15 N., R. 9 W., 10 ft. S. of N. end of W. head wall of concrete culvert under highway; chiseled square	613.99
Alexander, 2.0 mi. N. of, near E $\frac{1}{4}$ cor. sec. 12, T. 15 N., R. 9 W., 30 ft. N. and 30 ft. W. from crossroads, 3 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "11 A 1932"	639.929
Reference mark, in SW. angle of crossroads, on top of S. concrete head wall of culvert under rd. W.; chiseled square	642.02

[Continued in Jacksonville quadrangle, line 12]

WAPELLO QUADRANGLE

[Latitude $41^{\circ}00'$ - $41^{\circ}15'$; longitude $91^{\circ}00'$ - $91^{\circ}15'$]

MERCER COUNTY

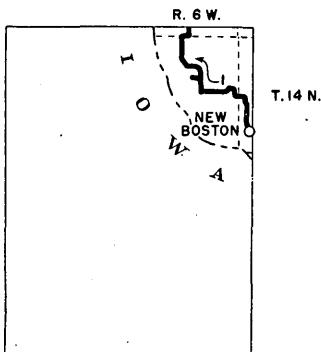


FIGURE 153.—Lines of leveling in Wapello quadrangle.

1. From New Boston northwest along roads to point near center of sec. 34, T. 15 N., R. 6 W. (by S. R. Archer in 1931)

[Connects with line 2 in Keithsburg quadrangle]

New Boston, 1.0 mi. NW. of Union Hotel, near center of sec. 30, T. 14 N., R. 5 W., 350 ft. N. of junction of T-rd. E., on W. side of rd., in root on NE. side of 18-in. hickory tree; copper nail and washer-----

Feet
574.27

New Boston, 1.5 mi. NW. of, near $N\frac{1}{4}$ cor. sec. 30, T. 14 N., R. 5 W., 40 ft. S. of junction of T-rd. E., on E. side of rd., in field, in root on SE. side of 10-in. oak tree; copper nail and washer-----

576.14

New Boston, 2.0 mi. NW. of, near center of sec. 19, T. 14 N., R. 5 W., 85 ft. S. and 60 ft. W. from crossroads, in root on NE. side of 24-in. oak tree; copper nail and washer-----

576.08

New Boston, 2.4 mi. NW. of, near center of $NW\frac{1}{4}$ sec. 19, T. 14 N., R. 5 W., 20 ft. N. and 20 ft. E. from junction of rd. SW., in root on SW. side of 18-in. oak tree; copper nail and washer-----

543.88

New Boston, 3.1 mi. NW. of, in $SE\frac{1}{4}$ sec. 13, T. 14 N., R. 6 W., 180 ft. E. of bridge over large drainage canal, at point where rd. crosses low ridge, on N. side of rd., at residence of Lyman Smith, 4 ft. W. of W. end of gate, in concrete post; standard tablet stamped "2 A 1931"-----

536.321

Reference mark, 35 ft. E. of tablet, on S. side of rd., in root on N. side of 24-in. locust tree; copper nail and washer-----

534.24

New Boston, 3.9 mi. NW. of, at Pin Oak School, near cor. sec. 13, 14, 23 and 24, T. 14 N., R. 6 W., in SW. angle of junction of rd. S., at NE. corner of schoolhouse, on SE. corner of concrete platform; chiseled square-----

534.14

882 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

	Feet
New Boston, 4.9 mi. NW. of, near NE. cor. sec. 22, T. 14 N., R. 6 W., 55 ft. S. and 20 ft. W. from right-angle turn in rd., in root on NE. side of 24-in. hickory tree; chiseled square-----	535.44
New Boston, 5.4 mi. NW. of, near E $\frac{1}{4}$ cor. sec. 15, T. 14 N., R. 6 W., 30 ft. S. and 25 ft. W. from crossroads, 5 ft. S. of NE. corner of yard of dwelling, in concrete post; standard tablet stamped "3 A 1931"-----	534.620
Reference mark, 55 ft. N. and 20 ft. W. from tablet, 20 ft. W. of fence corner, on N. side of fence, in root on SE. side of 18-in. twin maple tree; copper nail and washer-----	534.02
New Boston, 6.0 mi. NW. of, 0.5 mi. below head of Turkey Island, 0.25 mi. N. of center of sec. 15, T. 14 N., R. 6 W., 0.5 mi. E. of E. bank of Mississippi River, 0.25 mi. N. of rd., 0.2 mi. W. of dwelling of George Brile, at W. side near N. end of cultivated field; Mississippi River Comm. B. M. 135/1	
cap on iron pipe-----	535.540
bolt in tile-----	531.540
New Boston, 6.8 mi. NW. of, at Swan Lake School, near center of sec. 10, T. 14 N., R. 6 W., at right-angle turn in rd. from E. to N., on N. side of rd., on SW. corner of concrete porch floor in front of schoolhouse; chiseled square-----	536.54
New Boston, 7.5 mi. NW. of, 0.25 mi. S. of NE. cor. sec. 10, T. 14 N., R. 6 W., 75 ft. N. of junction of T-rd. N., on E. side of rd., in root on SW. side of 36-in. oak tree; copper nail and washer-----	536.96
New Boston, 8.7 mi. NW. of, near N. cor. secs. 3 and 4, T. 14 N., R. 6 W., 130 ft. S. and 40 ft. W. from junction of T-rd. S., 33 ft. S. and 40 ft. W. from center of bridge over drainage ditch, 16 ft. W. of fence corner, on S. side of fence along S. bank of ditch, in concrete post; standard tablet stamped "4 A 1931"-----	535.257
New Boston, 9.1 mi. NW. of, near S $\frac{1}{4}$ cor. sec. 34, T. 15 N., R. 6 W., on W. side near N. end of Swan Lake, 275 ft. N. and 60 ft. E. from right-angle turn in rd., in root on NW. side of 18-in. poplar tree; copper nail and washer-----	529.25

[Continued in Muscatine quadrangle, line 1]

WAVERLY QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $89^{\circ}45'$ – $90^{\circ}00'$]
MACOUPIN, MORGAN, AND SANGAMON COUNTIES

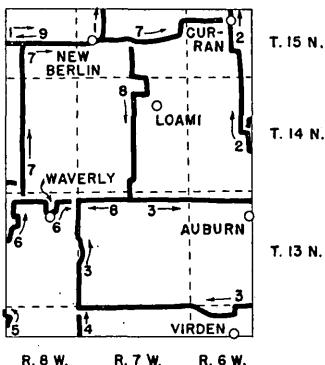


FIGURE 154.—Lines of leveling in Waverly quadrangle.

1. From point 2 miles east of Alexander east along Wabash Railway to New Berlin, thence east and north along roads to point 0.5 mile south of Berlin (by W. A. Shumate in 1921)

[Continued from Jacksonville quadrangle, line 1.]

Alexander, 3.2 mi. E. of, 0.3 mi. E. of rd. crossing, 3.7 mi. W. of New Berlin, on S. side of track, 2 ft. from fence; standard iron post with bronze cap stamped "1921 659"-----
New Berlin, at N. approach to Catholic School; standard tablet stamped "1921 653" (recovered by U. S. C. & G. S. in 1933)-----

[Connects with line 3 in Tallula quadrangle]

2. From point 2.7 miles southwest thence 1.4 miles west from Chatham along roads alternately west and north to point 0.6 mile north of Curran (by S. R. Archer in 1922)

[Continued from Divernon quadrangle, line 1]

Chatham, 2.7 mi. SW. thence 1.5 mi. W. from, 2.5 mi. N. of Auburn, near $N\frac{1}{4}$ cor. sec. 27, T. 14 N., R. 6 W., 25 ft. S. and 40 ft. E. from T-junction of N-S. rd., in fence line, in root 4 in. underground on N. side of small hedge tree; copper nail and washer-----

Auburn, 3.5 mi. N. of, near $S\frac{1}{4}$ cor. sec. 15, T. 14 N., R. 6 W., in NW. angle of junction of T-rd. W., 20 ft. W. of fence corner, in yard, in root on S. side of 24-in. maple tree; copper nail and washer (recovered in 1936)-----

Auburn, 3.5 mi. N. thence 0.5 mi. W. from, near cor. secs. 15, 16, 21, and 22, T. 14 N., R. 6 W., 15 ft. S. of T-rd. N., in concrete post; aluminum tablet stamped "Prim Trav Sta No 10 S 1922 38 A"-----

Feet
659.307
653.460

617.88

615.02

610.903

⁶⁸ In 1923 this bench mark was reported destroyed.

Reference mark, about 800 ft. N. of SW. cor. sec. 15, T. 14 N., R. 6 W., on E. side of rd., in root on SE. side of 36-in. cottonwood tree; copper nail and washer-----	Feet 609.71
Auburn, 4.5 mi. N. and 0.5 mi. W. from, near NW. cor. sec. 15, T. 14 N., R. 6 W., in SE. angle of crossroads, 4 ft. N. of NW. corner of yard of residence, in root on SW. side of 12-in. hedge tree; copper nail and washer-----	610.08
Auburn, 5.5 mi. N. and 0.5 mi. W. from, near NW. cor. sec. 10, T. 14 N., R. 6 W., in SE. angle of crossroads, in root on W. side of 14-in. hedge tree; copper nail and washer-----	608.35
Auburn, 6.5 mi. N. and 0.5 mi. W. from, 3.0 mi. S. and 0.5 mi. E. from Curran, near NE. cor. sec. 4, T. 14 N., R. 6 W., 120 ft. W. of rd. S., 65 ft. W. of Chicago & North Western Ry. overpass, on S. side of rd., in line with rd. N., on W. side of driveway to field, in top of bank; standard iron post with bronze cap stamped "Prim Trav Sta No 11 S 1922 39 A"-----	591.267
Reference mark, 400 ft. N. of SW. cor. sec. 34, T. 15 N., R. 6 W., 30 ft. S. and 25 ft. E. from junction of T-rd. SW., 25 ft. N. and 25 ft. E. from N. end of bridge over Lick Creek, in root on NW. side of 24-in. hackberry tree; copper nail and washer-----	570.48
Curran, 1.8 mi. S. thence 0.5 mi. E. from, 0.25 mi. N. of SW. cor. sec. 27, T. 15 N., R. 6 W., on E. side of rd., at T-rd. W., in NW. corner of yard of residence, in root on SW. side of forked maple tree; copper nail and washer-----	613.97
Curran, 1.8 mi. S. of, 0.25 mi. S. of center of sec. 28, T. 15 N., R. 6 W., 120 ft. W. of crossroads, on N. side of rd., in field, in root on E. side of 8-in. hackberry tree; copper nail and washer-----	620.84
Curran, 0.9 mi. S. of, near S $\frac{1}{4}$ cor. sec. 21, T. 15 N., R. 6 W., 340 ft. N. of T-rd. E., on N. side of crossing of Chicago & Alton R. R., on W. side of rd., on top of N. end of 24-in. iron drain pipe under track, on flange; chiseled square-----	615.34
Curran, 100 ft. N. of crossing of Wabash Ry., 45 ft. S. and 30 ft. E. from junction of T-rd. W., in front of store, 12 ft. N. of NW. corner of concrete platform, 10 ft. W. of NW. corner of shed on N. side of store, on top of NW. corner of concrete platform in front of shed; chiseled square (recovered by U. S. C. & G. S. in 1933)-----	626.239
Curran, 235 ft. N. of T-rd. W., 380 ft. N. of R. R. crossing, at NW. corner of intersection of State Highway 10 and N.-S. rd., opposite street E., at fence corner, in concrete post; aluminum tablet stamped "40 A 1922" (recovered by U. S. C. & G. S. in 1933) ⁶⁰ -----	625.675
[Continued in Tallula quadrangle, line 4]	
3. From point 1.4 miles north and 0.9 mile east from Virden along roads generally west to corner of Macoupin, Morgan, and Sangamon Counties, thence north to road junction 0.7 mile north and 1.5 miles east from Waverly, thence east to point 0.7 mile north of Auburn (by S. R. Archer in 1922)	
[Continued from Divernon quadrangle, line 2]	
Virden, 1.4 mi. N. of, near S $\frac{1}{4}$ cor. sec. 33, T. 13 N., R. 6 W., 50 ft. N. and 30 ft. E. from junction of State Highway 4, inside R. R. right-of-way corner; standard iron post with bronze cap stamped "Prim Trav Sta No 21 S 1922 14 A" ⁶⁰ -----	653.061

⁶⁰ When this bench mark was recovered in 1933, it seemed to have been raised 0.057 ft. above its original position.

⁶⁰ In 1936 a tie was made between this bench mark and the U. S. C. & G. S. standard disk stamped "Y 95 1935," elevation 662.312 ft.

	Feet
Reference mark, 40 ft. S. of highway junction, on W. side of highway, on top of N. end of W. head wall of concrete culvert under rd. S.; chiseled square	653. 43
Virden, 100 ft. N. of N. limits of, near center of sec. 4, T. 12 N., R. 6 W., 80 ft. N. of junction of T-rd. W., on E. side of highway, on top of S. head wall of concrete culvert under driveway to residence; chiseled square	658. 66
Virden, 1.0 mi. N. thence 1.0 mi. W. from, near center of sec. 5, T. 12 N., R. 6 W., 450 ft. E. of T-rd. S., on S. side of rd., in root on NE. side of 30-in. cottonwood tree; copper nail and washer	657. 26
Virden, 1.0 mi. N. thence 1.9 mi. NW. from, near center of NE $\frac{1}{4}$ sec. 6, T. 12 N., R. 6 W., 125 ft. W. of crossing of Chicago, Burlington & Quincy R. R. and rd., in field, 12 ft. S. of R. R. right-of-way fence line, in root on N. side of 30-in. hickory tree; copper nail and washer	647. 66
Virden, 1.4 mi. N. and 2.5 mi. W. from, 1.7 mi. E. and 1.9 mi. S. from Lowder, near SE. cor. sec. 36, T. 13 N., R. 7 W., 40 ft. N. and 25 ft. W. from junction of T-rd. N., 15 ft. N. of corner of fence, in concrete post; aluminum tablet stamped "Prim Trav Sta No 22 S 1922 13 A"	661. 481
Reference mark, 280 ft. N. of rd. junction, on E. side of rd., in fence line, in root on S. side of 12-in. hackberry tree; copper nail and washer	659. 28
Lowder, 1.0 mi. E. and 1.9 mi. S. from, 0.25 mi. E. of SW. cor. sec. 36, T. 13 N., R. 7 W., on N. side of rd., in fence corner, in root on N. side of 14-in. hedge tree; copper nail and washer	670. 74
Lowder, 0.3 mi. E. thence 1.9 mi. S. from, near S $\frac{1}{4}$ cor. sec. 35, T. 13 N., R. 7 W., in NE. angle of junction of T-rd. N., at fence corner, in root on NW. side of double hedge tree; copper nail and washer	687. 59
Lowder, 0.7 mi. W. and 1.9 mi. S. from, near S $\frac{1}{4}$ cor. sec. 34, T. 13 N., R. 7 W., 25 ft. N. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 23 S 1922 12 A"	679. 460
Reference mark, in SW. corner of crossroads, on top of S. head wall of concrete culvert; chiseled square	679. 45
Lowder, 1.7 mi. W. and 1.9 mi. S. from, near N $\frac{1}{4}$ cor. sec. 4, T. 12 N., R. 7 W., in SW. angle of crossroads, on S. side of rd. W., in root on SE. side of 24-in. cherry tree; copper nail and washer	678. 10
Lowder, 2.6 mi. W. and 1.9 mi. S. from, 400 ft. E. of S $\frac{1}{4}$ cor. sec. 32, T. 13 N., R. 7 W., at E. concrete abutment of bridge over drain, on top of N. end of bridge seat; chiseled square	683. 27
Lowder, 3.2 mi. W. and 1.9 mi. S. from, near NE. cor. sec. 6, T. 12 N., R. 7 W., in SW. angle of crossroads, 10 ft. S. and 15. ft. W. from fence corner, inside fence, in root on N. side of 30-in. maple tree; copper nail and washer	692. 82
Lowder, 4.2 mi. W. and 1.9 mi. S. from, 4.8 mi. S. and 1.5 mi. E. from Waverly, 0.5 mi. S. and 1.8 mi. E. from Rohrer, in SE. cor. sec. 36, T. 13 N., R. 8 W., at corner of Macoupin, Morgan, and Sangamon Counties, 30 ft. N. and 40 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 24 S 1922 11 A"	698. 288

Reference mark, 120 ft. N. of crossroads, on E. side of rd., 12 ft. E. of fence, in garden, in root on SW. side of 30-in. oak tree; copper nail and washer-----	Feet 699.25
Waverly, 4.1 mi. S. and 1.5 mi. E. from, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 31, T. 13 N., R. 7 W., 65 ft. N. of sixteenth line crossing, on top of E. head wall of concrete culvert; chiseled square-----	692.15
Waverly, 3.3 mi. S. and 1.5 mi. E. from, 0.4 mi. S. thence 4.2 mi. W. from Lowder, near E $\frac{1}{4}$ cor. sec. 25, T. 13 N., R. 8 W., 130 ft. W. of crossroads, on N. side of rd., in fence line, in root on S. side of small hedge tree; copper nail and washer-----	695.88
Waverly, 2.9 mi. S. and 1.5 mi. E. from, 600 ft. S. of NW. cor. sec. 30, T. 13 N., R. 7 W., 800 ft. N. of junction of T-rd. W., on E. side of rd., in root on W. side of 24-in. walnut tree; copper nail and washer-----	699.18
Waverly, 2.2 mi. S. and 1.6 mi. E. from, about 800 ft. E. of W $\frac{1}{4}$ cor. sec. 19, T. 13 N., R. 7 W., at Morgan-Sangamon county line, at right-angle bend N. in rd.; on E. side of rd., at fence corner, in root on W. side of forked locust tree; copper nail and washer-----	671.35
Waverly, 1.7 mi. S. and 1.6 mi. E. from, about 800 ft. E. of SW. cor. sec. 18, T. 13 N., R. 7 W., 80 ft. E. of junction of T-rd. E., on N. side of rd. E., in root on N.-side of forked elm tree; copper nail and washer-----	665.45
Waverly, 1.2 mi. S. and 1.6 mi. E. from, about 800 ft. E. of W $\frac{1}{4}$ cor. sec. 18, T. 13 N., R. 7 W., 15 ft. N. of T-junction of E.-W. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 30 S 1922 25 A"-----	632.574
Waverly, 0.3 mi. S. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 7, T. 13 N., R. 7 W., 50 ft. N. and 30 ft. E. from crossroads, 25 ft. N. and 5 ft. E. from SW. corner of yard of residence, in yard, in root on SW. side of 30-in. maple tree; copper nail and washer-----	630.26
Waverly, 0.7 mi. N. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 6, T. 13 N., R. 7 W., 135 ft. E. of rd. N., 20 ft. N. of rd. S., in concrete post; aluminum tablet stamped "Prim Trav Sta No 31 S 1922 26 A" (recovered in 1923)-----	640.164
Reference mark, in SW. angle at offset crossroads, at fence corner, in root on N. side of 8-in. hackberry tree; copper nail and washer (recovered in 1923)-----	639.62
Waverly, 0.7 mi. N. and 2.5 mi. E. from, 70 ft. E. of W $\frac{1}{4}$ cor. sec. 5, T. 13 N., R. 7 W., on S. side of rd., on E. bank of drain, inside fence, in root on N. side of 12-in. locust tree; copper nail and washer (recovered in 1923)-----	616.72
Waverly, 0.7 mi. N. and 3.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 5, T. 13 N., R. 7 W., in SW. angle of crossroads, at Locust Grove School, in NE. corner of schoolyard, in root on E. side of four-forked maple tree; copper nail and washer (recovered in 1923)-----	619.59
Waverly, 0.7 mi. N. and 4.3 mi. E. from, 0.7 mi. N. thence 6.7 mi. W. from Auburn, 1.3 mi. W. thence 5.2 mi. S. from Loami; 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 4, T. 13 N., R. 7 W., 25 ft. S. of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 32 S 1922 27 A" (recovered in 1923)-----	629.857
Reference mark, 60 ft. E. of rd. junction, on N. side of rd., at fence line, in root on S. side of 15-in. hackberry tree; copper nail and washer (recovered in 1923)-----	628.68

	Feet
Auburn, 0.7 mi. N. thence 5.9 mi. W. from, 340 ft. E. of center of sec. 3, T. 13 N., R. 7 W., on N. side of rd., in root on N. side of 24-in. elm tree; copper nail and washer-----	630.97
Auburn, 0.7 mi. N. thence 5.0 mi. W. from, near center of sec. 2, T. 13 N., R. 7 W., in NE. angle of crossroads, at fence corner, in root on SE. side of 15-in. hedge tree; copper nail and washer-----	629.44
Auburn, 0.7 mi. N. thence 4.4 mi. W. from, about 500 ft. E. of W $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 7 W., 125 ft. E. of bridge over Johns Creek, on S. side of rd., in root on S. side of 24-in. elm tree; copper nail and washer-----	612.22
Auburn, 0.7 mi. N. thence 3.4 mi. W. from, near E $\frac{1}{4}$ cor. sec. 1, T. 13 N., R. 7 W., at offset crossroads, 50 ft. S. of rd. W., 15 ft. W. of rd. E., in concrete post; aluminum tablet stamped "Prim Trav Sta No 33 S 1922 28 A"-----	634.550
Auburn, 0.7 mi. N. thence 2.5 mi. W. from, near quarter corner between secs. 5 and 6, T. 13 N., R. 6 W., on S. side of rd., 10 ft. E. of fence corner, in root on N. side of 30-in. maple tree; copper nail and washer-----	631.52
Auburn, 0.7 mi. N. thence 1.5 mi. W. from, 200 ft. W. of E $\frac{1}{4}$ cor. sec. 5, T. 13 N., R. 6 W., 200 ft. W. of junction of T-rd. N., on S. side of rd., in NE. corner of yard of residence, in root on N. side of 30-in. maple tree; copper nail and washer-----	632.32
Auburn, 0.7 mi. N. thence 0.5 mi. W. from, near quarter corner between secs. 3 and 4, T. 13 N., R. 6 W., on N. side of rd., opposite T-rd. S., in yard of residence, in root on S. side of 20-in. hackberry tree; copper nail and washer-----	623.89

[Continued in Divernon quadrangle, line 3]

4. From point 3 miles east and 1.4 miles north from Modesto along road north 1.5 miles to corner of Macoupin, Morgan, and Sangamon Counties (by S. R. Archer in 1922)

[Continued from Carlinville quadrangle, line 2]

Modesto, 3.0 mi. E. and 2.0 mi. N. from, 5.8 mi. S. and 1.5 mi. E. from Waverly, near SE. cor. sec. 1, T. 12 N., R. 8 W., 40 ft. N. and 60 ft. W. from junction of T-rd. W., 45 ft. S. and 13 ft. E. from entrance to Chapman Point School; in root on E. side of 12-in. elm tree, southernmost of row of trees; copper nail and washer-----

689.44

5. From point 1 mile west and 2 miles north from Modesto along roads northeast 0.5 mile and west 0.2 mile (by E. O. Brooks in 1923; leveled twice)

[A jog from Jacksonville quadrangle, line 2]

Modesto, 1.0 mi. W. and 2.0 mi. N. from, near W. cor. secs. 4 and 9, T. 12 N., R. 8 W., 220 ft. E. of T-rd. S., on S. side of rd., at jog, in root on N. side of 24-in. maple tree; copper nail and washer-----

686.35

[Continued in Jacksonville quadrangle, line 2]

6. From point 1.3 miles south and 2.5 miles west from Waverly along roads generally east and north, to road junction 3 miles east and 1 mile south from Franklin, thence east to point 0.7 mile north and 1.5 miles east from Waverly (by E. O. Brooks in 1923)

[Continued from Jacksonville quadrangle, line 2]

	Feet
Waverly, 0.5 mi. S. and 2.1 mi. W. from, about 0.25 mi. N. and 0.1 mi. W. from S $\frac{1}{4}$ cor. sec. 9, T. 13 N., R. 8 W., in SW. angle of junction of E.-W. rd., in corner of pasture, 15 ft. W. of fence line, in root on NE. side of 36-in. elm tree; copper nail and washer-----	635. 21
Waverly, 2.0 mi. W. of, in NE $\frac{1}{4}$ sec. 9, T. 13 N., R. 8 W., 360 ft. E. of T.-rd. N., on S. side of rd., at entrance to farmhouse, in ditch, at E. end of tile culvert, on top of stone set in concrete; chiseled square-----	667. 38
Waverly, 0.7 mi. N. and 1.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 3, T. 13 N., R. 8 W., 100 ft. S. and 100 ft. E. from junction of T.-rd. N., on N. bank of drain, 40 ft. S. of rd., in root on NW. side of 18-in. hickory tree; copper nail and washer-----	660. 85
Waverly, 0.7 mi. N. and 1.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 3, T. 13 N., R. 8 W., in fence line S., in root on NE. side of 12-in. hackberry tree; copper nail and washer-----	662. 39
Waverly, 0.7 mi. N. and 0.5 mi. W. from, near quarter corner between secs. 2 and 3, T. 13 N., R. 8 W., opposite T.-rd. N., 15 ft. W. of corner of right-of-way fence and fence line S., in fence line, in root on NE. side of 24-in. Osage-orange tree; copper nail and washer-----	679. 02
Waverly, in NW. part of, at crossing of Chicago, Burlington & Quincy R. R.; top of N. rail-----	675. 6
Waverly, at C. B. & Q. R. R. sta., opposite operator's window; top of S. rail-----	677. 8
Waverly, 150 ft. E. of C. B. & Q. R. R. sta., 60 ft. S. of Chicago, Springfield & St. Louis Ry. sta., on top of SW. corner of concrete base of block signal post; chiseled square-----	676. 89
Waverly, at C. S. & St. L. Ry. sta., opposite operator's window; top of W. rail-----	677. 5
Waverly, 0.7 mi. N. and 0.5 mi. E. from, in SE. angle of crossroads, on top of concrete head wall of culvert; chiseled square-----	678. 38
7. From road junction 0.7 mile north and 1.5 miles west from Waverly along roads north to crossroads 4 miles west of New Berlin, thence alternately east and north to Curran (by E. O. Brooks in 1923)	
Waverly, 1.7 mi. N. and 1.5 mi. W. from, 3.5 mi. E. of Franklin, near E $\frac{1}{4}$ cor. sec. 33, T. 14 N., R. 8 W., 26 ft. N. and 23 ft. W. from crossroads, 5 ft. N. and 1 ft. E. from corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 12 W 1923 35 EB" (recovered in 1930)-----	677. 902
Reference mark, 45 ft. E. of tablet, in NE. angle of crossroads, in corner of pasture, in root on W. side of 24-in. tree, corner tree in row of maples; copper nail and washer (recovered in 1930)-----	677. 90
Franklin, 3.5 mi. E. thence 0.9 mi. N. from, near E $\frac{1}{4}$ cor. sec. 28, T. 14 N., R. 8 W., on E. side of rd., 50 ft. N. and 35 ft. W. from small farmhouse, in fence line, in root on SW. side of 36-in. walnut (southernmost) tree; copper nail and washer-----	674. 84
Franklin, 3.5 mi. E. thence 2.5 mi. N. from, near SE. cor. sec. 16, T. 14 N., R. 8 W., on E. side of rd., 20 ft. N. of corner of right-of-way fence and fence line E., in fence line, in root on W. side of 36-in. maple tree; copper nail and washer-----	671. 56

Franklin, 3.5 mi. E. thence 3.0 mi. N. from, 4.0 mi. W. thence 4.5 mi. S. from New Berlin, near quarter corner between secs. 15 and 16, T. 14 N., R. 8 W., on N. side of rd., opposite rd. S., 3 ft. S. and 20 ft. E. from corner of right-of-way fence and fence line N., in concrete post; standard tablet stamped "Prim Trav Sta No 13 W 1923 36 EB"	Feet 674. 862
Reference mark, 3 ft. N. and 20 ft. W. from tablet, in fence line, in root on S. side of 12-in. Osage-orange tree; copper nail and washer	675. 17
New Berlin, 4.0 mi. W. thence 3.5 mi. S. from, near E $\frac{1}{4}$ cor. sec. 9, T. 14 N., R. 8 W., on S. side of rd., 5 ft. N. and 5 ft. W. from corner of right-of-way fence and fence line S., in root on N. side of 12-in. maple tree; copper nail and washer	672. 10
New Berlin, 4.0 mi. W. thence 2.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 3, T. 14 N., R. 8 W., 410 ft. N. of junction of T-rd. W., on E. side of rd., in fence line, in root on NW. side of 24-in. hackberry tree; copper nail and washer	668. 81
New Berlin, 4.0 mi. W. thence 1.0 mi. S. from, near cor. secs. 27, 28, 33, and 34, T. 15 N., R. 8 W., 90 ft. N. of corner of right-of-way fence and fence line E., on E. side of rd., in root on SW. side of 30-in. hackberry tree; copper nail and washer	662. 89
New Berlin, 4.0 mi. W. of, 2.9 mi. E. of Alexander, near NW. cor. sec. 27, T. 15 N., R. 8 W., in SE. angle of crossroads, 2 ft. S. and 2 ft. W. from corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 14 W 1923 37 EB" (recovered by U. S. C. & G. S. in 1933)	652. 433
New Berlin, 3.0 mi. W. of, near NW. cor. sec. 26, T. 15 N., R. 8 W., in SE. angle of junction of T-rd. S., in center of top of concrete head wall of culvert under rd. S.; chiseled square (recovered in 1930)	656. 52
New Berlin, 2.0 mi. W. of, near N. cor. secs. 25 and 26, T. 15 N., R. 8 W., on S. side of rd., in NE. corner of yard of farmhouse, in root on NE. side of 36-in. maple tree; copper nail and washer	659. 76
New Berlin, near Catholic School, in SE. angle of cross streets, in root on NE. side of 36-in. elm tree; copper nail ^a	651. 99
New Berlin, 1.2 mi. E. of, 0.25 mi. E. of SW. cor. sec. 21, T. 15 N., R. 7 W., on N. side of rd., in center of top of concrete head wall of culvert; chiseled square	644. 50
New Berlin, 2.0 mi. E. of, 1.3 mi. W. of Bates, near SW. cor. sec. 22, T. 15 N., R. 7 W., 100 ft. N. and 30 ft. E. from crossroads, in SW. corner of yard of farmhouse, in root on NW. side of 24-in. maple tree; copper nail and washer	643. 40
Bates, 140 ft. N. and 100 ft. E. from R. R. sta., on N. side of rd., at T-rd. S., 25 ft. W. of gate, 2 ft. S. of fence, in concrete post; standard tablet stamped "38 EB 1923" (recovered by U. S. C. & G. S. in 1933)	640. 271
Reference mark, 20 ft. N. of tablet; in root on S. side of 24-in. hard-maple tree; copper nail and washer	639. 69
Bates, 1.6 mi. NE. of, near center of SE $\frac{1}{4}$ sec. 24, T. 15 N., R. 7 W., in NE. corner of crossroads, in center of top of concrete head wall of culvert; chiseled square	634. 85

^aThis bench mark is 80 ft. south and 150 ft. east from the standard tablet stamped "1921 653" (line 1), for which it was established as a reference mark.

	Feet
Bates, 1.6 mi. NE. thence 0.8 mi. N. from, 2.6 mi. W. of Curran, 0.25 mi. W. of SE. cor. sec. 13, T. 15 N., R. 7 W., on W. side of rd., opposite T-rd. E., 2 ft. E. of fence line, 12 ft. N. of gate, in concrete post; standard tablet stamped "39 EB 1923"-----	608. 976
Reference mark, 35 ft. N. and 18 ft. E. from tablet, at SW. corner of steel bridge over small drain, in center of top of concrete retaining wall; chiseled square-----	609. 41
Curran, 1.5 mi. W. of, near NW. cor. sec. 20, T. 15 N., R. 6 W., in SE. angle of crossroads, at fence corner, in root on W. side of 12-in. elm tree; copper nail and washer-----	627. 88
Curran, 0.5 mi. W. of, near SE. cor. sec. 17, T. 15 N., R. 6 W., on N. side of rd., in center of top of concrete head wall of bridge over small drain; chiseled square-----	612. 98
8. From point 1.3 miles east of New Berlin along roads east 0.7 mile, thence generally south to crossroads 0.7 mile north and 4.3 miles east from Waverly, thence west 2.8 miles (by E. O. Brooks in 1923)	
New Berlin, 2.0 mi. E. thence 1.0 mi. S. from, in SW. angle of crossroads, near Patton School, in center of top of concrete head wall of culvert; chiseled square-----	649. 52
New Berlin, 2.0 mi. E. thence 2.0 mi. S. from, 1.3 mi. W. and 1.5 mi. N. from Loami, near SW. cor. sec. 34, T. 15 N., R. 7 W., in NE. angle of T-junction of E.-W. rd., 12 ft. N. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "40 EB 1923"-----	650. 572
Reference mark, 5 ft. S. and 40 ft. W. from tablet, 8 ft. N. of fence corner, in NW. angle of rd. junction, in root on N. side of 6-in. Osage-orange tree; copper nail and washer-----	651. 14
Loami, 1.3 mi. W. thence 0.6 mi. N. from, 420 ft. N. of SE. cor. sec. 4, T. 14 N., R. 7 W., on N. side of rd., at angle, at corner of fence, in root on NE. side of 24-in. Osage-orange tree; copper nail and washer-----	647. 83
Loami, 1.3 mi. W. thence 0.1 mi. S. from, near E $\frac{1}{4}$ cor. sec. 9, T. 14 N., R. 7 W., 35 ft. S. and 20 ft. W. from junction of T-rd. W., 1 ft. E. of fence, in concrete post; standard tablet stamped "41 EB 1923"-----	642. 430
Reference mark, 230 ft. N. of tablet, in center of top of W. concrete head wall of culvert; chiseled square-----	640. 41
Loami, 1.3 mi. W. thence 1.1 mi. S. from, near W $\frac{1}{4}$ cor. sec. 15, T. 14 N., R. 7 W., in SE. angle of junction of rd. SE., in center of top of S. end of concrete culvert; chiseled square-----	636. 58
Loami, 1.3 mi. W. thence 2.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 22, T. 14 N., R. 7 W., in NE. angle of crossroads, in SW. corner of yard of farmhouse, in root on W. side of twin maple tree; copper nail and washer-----	634. 77
Loami, 1.3 mi. W. thence 3.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 27, T. 14 N., R. 7 W., 35 ft. S. and 20 ft. E. from junction of T-rd. W., 2 ft. W. of hedge fence, in concrete post; standard tablet stamped "42 EB 1923"-----	633. 227
Reference mark, 45 ft. W. of tablet, 10 ft. W. of fence corner, in root on N. side of 24-in. Osage-orange tree; copper nail and washer-----	633. 39
Loami, 1.3 mi. W. thence 4.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 34, T. 14 N., R. 7 W., 120 ft. N. of T-junction of E.-W. rd., on E. side of rd., in fence line, in root on NW. side of 12-in. hackberry tree; copper nail and washer-----	605. 53

9. From road junction 3 miles west of New Berlin along road west
1.8 miles to point 2 miles east of Alexander (by G. W. Moore
in 1930)

New Berlin, 4.0 mi. W. of, in fence line, in root on SE. side of 36-in. *Feet*
elm tree; copper nail and washer ^{a2} ----- 650.39

[Continued in Jacksonville quadrangle, line 10.]

^{a2} This bench mark is 45 ft. south and 55 ft. west from the standard tablet stamped
"PrIm Trav Sta No 14 W 1923 37 EB" (line 7), for which it was set as a reference mark.

WINCHESTER QUADRANGLE

[Latitude $39^{\circ}30'$ – $39^{\circ}45'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]

GREENE, MORGAN, AND SCOTT COUNTIES

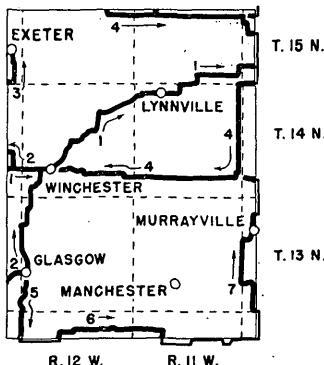


FIGURE 155.—Lines of leveling in Winchester quadrangle.

1. From point 2.3 miles west of Winchester generally northeast along roads by way of Lynnville to point in southwestern part of Jacksonville (by W. A. Shumate in 1921)

[Continued from Griggsville quadrangle, line 2]

Winchester, 2.0 mi. W. of Scott County courthouse, near center of sec. 25, T. 14 N., R. 13 W., 35 ft. N. and 35 ft. E. from crossroads, 238 ft. N. of N. edge of concrete pavement; standard iron post with bronze cap stamped "1921 498" and "P T Sta 83 W 1923 S 497" (recovered in 1924) ^{as}

Feet
496.642

Reference mark, in NE. angle of crossroads, in root of 40-in. gum tree; copper nail and washer

495.43

Winchester, 1.0 mile W. of, 400 ft. W. of center of sec. 30, on N. side of highway, in yard of residence of E. I. Stout, 25 ft. W. of concrete walk, in root on S. side of 36-in. maple tree; copper nail and washer (recovered in 1924)

525.72

Winchester, on W. side at SW. corner of Scott County courthouse, in basement window sill; standard tablet stamped "1921 546" and "Prim Trav Sta No 86 W 1923" (recovered in 1924)

545.899

Winchester, 0.9 mi. NE. of, 0.1 mi. E. of W. cor. secs. 21 and 28, T. 14 N., R. 12 W., on SE. side of rd., in NE. angle of entrance to baseball park, in root of 18-in. elm tree; copper nail and washer

567.20

Winchester, 2.0 mi. NE. of, near N $\frac{1}{4}$ cor. sec. 21, T. 14 N., R. 12 W., in SE. angle of junction of T-rd. NE., 35 ft. E. of Chicago, Burlington & Quincy R. R. track, in root of 18-in. elm tree; copper nail and washer

591.65

^{as} As moved and reset in 1923 at an elevation 1.285 ft. lower than that originally determined. The figures given represent the new elevation.

	Feet
Winchester, 3.1 mi. NE. of, 5.5 mi. SW. of Lynnville, in SW $\frac{1}{4}$ sec. 15, T. 14 N., R. 12 W., at sharp turn from NE. to N. in rd., in SW. angle of junction of lane S., 1 ft. NW. of fence corner; standard iron post with bronze cap stamped "1921 588"-----	588. 556
Lynnville, 4.8 mi. SW. of, near E $\frac{1}{4}$ cor. sec. 15, T. 14 N., R. 12 W., in NW. angle of crossroads, on concrete culvert; chiseled square-----	594. 69
Lynnville, 3.8 mi. SW. of, near W $\frac{1}{4}$ cor. sec. 11, T. 14 N., R. 12 W., in SW. corner of yard at Pleasant Point School, in root of 30-in. hackberry tree; copper nail and washer-----	599. 73
Lynnville, 2.6 mi. SW. of, near center of NW $\frac{1}{4}$ sec. 12, T. 14 N., R. 12 W., on NW. side of rd., 100 ft. E. of farmhouse, in root of 18-in. elm tree; copper nail and washer-----	618. 25
Lynnville, 1.4 mi. W. of, in SW $\frac{1}{4}$ sec. 6, T. 14 N., R. 11 W., 800 ft. E. of Morgan-Scott county line, on N. side of rd., in SE. corner of farm-yard of William Colitis, in root of 30-in. maple tree; copper nail and washer-----	623. 34
Lynnville, in NE. angle of crossroads, 1 ft. N. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "1921 618"-----	617. 709
Reference mark, in NW. angle of crossroads, on concrete sidewalk; chiseled square-----	616. 61
Lynnville, 1.0 mi. E. thence 0.5 mi. N. from, near N $\frac{1}{4}$ cor. sec. 4, T. 15 N., R. 11 W., 200 ft. E. of crossroads, on S. side of rd., in root of 18-in. cedar tree; copper nail and washer-----	629. 82
Lynnville, 2.0 mi. E. and 0.5 mi. N. from, near quarter corner between secs. 3 and 34, Tps. 14 and 15 N., R. 11 W., on E. side of N.-S. rd., in line with rd. W., in root of 30-in. maple tree; copper nail and washer-----	634. 04
Lynnville, 2.2 mi. E. and 1.0 mi. N. from, 2.3 mi. S. and 4.0 mi. W. from courthouse at Jacksonville, 0.25 mi. W. from E $\frac{1}{4}$ cor. sec. 34, T. 15 N., R. 11 W., 140 ft. E. of T-rd. N., on N. side of rd., in root of 48-in. maple tree; copper nail and washer-----	644. 61
Jacksonville, 2.3 mi. S. and 2.8 mi. W. from, near W $\frac{1}{4}$ cor. sec. 36, T. 15 N., R. 11 W., at summit of small hill, on S. side of rd., in front yard of farmhouse, in root of 60-in. tree; copper nail and washer-----	641. 43
[Continued in Jacksonville quadrangle, line 1]	
2. From point 1.2 miles southwest of Glasgow along roads northeast to Glasgow, thence generally north to road junction 0.5 mile west of Winchester, thence alternately west and north to point 2.3 miles west and 1 mile north from Winchester (by S. R. Archer in 1924)	
[Continued from Griggsville quadrangle, line 3]	
Glasgow, 0.9 mi. W. of, near center of NE $\frac{1}{4}$ sec. 25, T. 13 N., R. 13 W., 0.2 mi. SW. of sharp bend E. in rd., 85 ft. N. of crossing of E.-W. sixteenth line, at summit of hill, on E. side of rd., at angle to N., in root on SW. side of 18-in. maple tree; copper nail and washer-----	549. 06
Glasgow, in SE. angle of junction of T-rd. E., in NW. corner of school-yard, in concrete post; standard tablet stamped "Prim Trav Sta No 85 1923 1 A"-----	586. 679
Reference mark, 10 ft. N. and 100 ft. E. from tablet, 5 ft. W. of concrete walk to entrance of schoolhouse, in root on NW. side of 30-in. maple tree; copper nail and washer-----	587. 90

Glasgow, 0.6 mi. N. of, W. of center of sec. 19, T. 13 N., R. 12 W., on E. side of rd., at right-angle jog NW., 10 ft. S. of SW. corner of cemetery, at fence line, in root on NW. side of 24-in. elm tree; copper nail and washer-----	Feet 568. 44
Glasgow, 1.3 mi. N. of, about 500 ft. N. of SW. cor. sec. 18, T. 13 N., R. 12 W., on W. side 5 ft. N. of S. end of concrete bridge over Big Sandy Creek, at foot of side wall, on top of curb; chiseled square-----	454. 45
Glasgow, 1.7 mi. N. of, near E $\frac{1}{4}$ cor. sec. 13, T. 13 N., R. 13 W., 75 ft. N. of T-rd. W., on W. side of rd., inside field fence, in root on W. side of 12-in. sycamore tree standing with 24-in. tree; copper nail and washer-----	450. 23
Glasgow, 2.6 mi. N. of, 300 ft. S. of E $\frac{1}{4}$ cor. sec. 12, T. 13 N., R. 13 W., 300 ft. S. of right-angle turn E. in rd., on W. side of rd., at top of bank, in root on S. side of 36-in. sycamore tree; copper nail and washer-----	568. 97
Glasgow, 3.5 mi. N. of, 3.5 mi. SW. of Winchester, 0.3 mi. E. of NW. cor. sec. 7, T. 13 N., R. 12 W., 20 ft. S. and 20 ft. E. from crossroads, 3 ft. E. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 84 W 1923 2 A"-----	534. 011
Reference mark, 150 ft. E. of tablet, 180 ft. E. of crossroads, on S. side of rd., in field, in root on SW. side of 12-in. elm tree; copper nail and washer-----	533. 24
Winchester, 3.0 mi. SW. of, near center of sec. 6, T. 13 N., R. 12 W., at Claywell School, 30 ft. S. and 20 ft. E. from junction of T-rd. W., on E. side of rd., in fence line, in root on N. side of 48-in. oak tree; copper nail and washer-----	538. 81
Winchester, 2.1 mi. SW. of, near center of sec. 31, T. 14 N., R. 12 W., 80 ft. S. of T-rd. W., on W. side of rd., at fence line, in root on NE. side of 10-in. hickory tree; copper nail and washer-----	549. 97
Winchester, 0.5 mi. W. thence 0.7 mi. S. from, 0.25 mi. S. of NW. cor. sec. 32, T. 14 N., R. 12 W., 80 ft. N. and 50 ft. E. from right-angle turn N in rd., in field, in root on NW. side of 48-in. elm tree; copper nail and washer-----	536. 78
Winchester, 0.5 mi. W. of, near W $\frac{1}{4}$ cor. sec. 29, T. 14 N., R. 12 W., 25 ft. S. and 50 ft. E. from junction of T-rd. S., 30 ft. E. of NW. corner of yard of residence, inside sidewalk, in root on S. side of 30-in. maple tree; copper nail and washer-----	525. 54
Winchester, 0.7 mi. W. of, 0.3 mi. E. of center of sec. 30, T. 14 N., R. 12 W., at NW. corner of concrete bridge, on top of parapet; chiseled square-----	513. 45
Winchester, 1.9 mi. W. of, 400 ft. E. of center of sec. 25, T. 14 N., R. 13 W., 400 ft. E. of crossroads, at NW. corner of concrete bridge over fork of Walnut Creek, on top of parapet; chiseled square-----	490. 33
Winchester, 2.0 mi. W. thence 1.0 mi. N. from, near center of sec. 24, T. 14 N., R. 13 W., 430 ft. N. of junction of T-rd. W., on N. side of rd. at right angle-turn E., in root on SE. side of 30-in. boxelder tree; copper nail and washer-----	548. 23

[Continued in Griggsville quadrangle, line 4]

3. From point 1.9 miles south and 0.4 mile west from Exeter along roads east, north, and west to point in west part of Exeter (by S. R. Archer in 1924)

[A jog from Griggsville quadrangle, line 4]

Exeter, 1.9 mi. S. of, near $N\frac{1}{4}$ cor. sec. 1, T. 14 N., R. 13 W., 50 ft. S. and 13 ft. E. from junction of T-rd. N., 15 ft. E. of fence corner, in field, in root on NW. side of 10-in. maple tree; copper nail and washer	Feet 560. 06
Exeter, 0.9 mi. S. of, near quarter corner between secs. 25 and 36, T. 15 N., R. 13 W., 20 ft. S. and 20 ft. E. from T-junction of E.-W. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 81 W 1923 4 A"	569. 457
Reference mark, 175 ft. N. and 575 ft. W. from tablet, 150 ft. N. and 85 ft. W. from right-angle turn N. in rd., in field, in root on NE. side of 30-in. oak tree; copper nail	570. 08
Exeter, in E. part of, 35 ft. N. and 40 ft. W. from T-junction of E.-W. rd., at residence of Leo Bishop, in SE. corner of yard, inside sidewalk, in root on S. side of 15-in. boxelder tree; copper nail and washer	568. 49
Exeter, in center of junction of T-rd. N. and street S., on top of SE. corner of concrete well platform; chiseled square	551. 79

[Continued in Griggsville quadrangle, line 4]

4. From point 1.2 miles south of Chapin alternately south and east along roads and Wabash Railway to point 2.8 miles south and 1 mile west from Jacksonville, thence alternately west and south to road junction 0.5 mile west of Winchester (by S. R. Archer in 1924)

[Continued from Arenzville quadrangle, line 1]

Chapin, 1.4 mi. S. of, 170 ft. W. of center of sec. 14, T. 15 N., R. 12 W., 170 ft. W. of T-rd. S., 20 ft. S. and 20 ft. W. from right angle N. in rd. and junction of private rd. W., on S. side of rd., in line with fence line on W. side of rd. N., in concrete post; standard tablet stamped "9 A 1924"	609. 412
Reference mark, 240 ft. N. of tablet, 220 ft. N. and 150 ft. W. from junction of rd. S., 220 ft. N. of right-angle turn, on top of S. end of W. head wall of concrete culvert under rd. N.; chiseled square	605. 62
Chapin, 1.4 mi. S. thence 0.8 mi. E. from, 0.25 mi. W. of center of sec. 13, T. 15 N., R. 12 W., in SE. angle of junction of private rd. S., in fence corner, in root on N. side of 6-in. elm tree; copper nail and washer	609. 55
Chapin, 1.4 mi. S. thence 1.6 E. from, near $E\frac{1}{4}$ cor. sec. 13, T. 15 N., R. 12 W., at crossing of Wabash Ry., on N. side of rd., on W. side of track, in field, at right-of-way corner, in root on W. side of 12-in. live-oak tree; copper nail and washer	533. 18
Chapin, 1.4 mi. S. thence 2.2 mi. E. from, 0.25 mi. W. of $E\frac{1}{4}$ cor. sec. 18, T. 15 N., R. 11 W., at summit of hill, 150 ft. E. of old rd. N., opposite and 20 ft. W. from farmhouse on S. side of rd., on N. side of rd., in fence line, in root 8 in. underground on S. side of 6-in. cedar tree; copper nail and washer	605. 16
Chapin, 1.5 mi. S. and 2.7 mi. E. from, 1.3 mi. W. of Markham sta., 0.12 mi. S. and 0.25 mi. W. from center of sec. 17, T. 15 N., R. 11 W., 60 ft. S. 12° W. from crossing of Wabash Ry. and N.-S. rd., in S.-W. right-of-way fence corner, 5 ft. N. of double-forked elm tree, in concrete post; standard tablet stamped "Prim Trav Sta No 2 Mac 1923 10 A" (recovered by U. S. C. & G. S. in 1933)	603. 109

	Feet
Reference mark, 5 ft. S. of tablet, on W. side of rd., at NE. corner of field, in root on N. side of double-forked elm tree; copper nail and washer	602. 68
Markham, 0.4 mi. W. of, 0.36 mi. W. of center of sec. 16, T. 15 N., R. 11 W., about 750 ft. E. of T-rd. N., on S. side of rd., on E. side of driveway to farmhouse, in root on N. side of 24-in. maple tree; copper nail and washer	596. 60
Markham, 90 ft. S. and 90 ft. E. from sta., 130 ft. E. of rd. junction, on S. side of rd. E., in root on NW. side of 15-in. maple tree; copper nail and washer	587. 20
Markham, 0.6 mi. E. of, about 300 ft. E. of W $\frac{1}{4}$ cor. sec. 15, T. 15 N., R. 11 W., on S. side of track, 15 ft. S. of S. right-of-way fence line, in field, in trunk on NW. side of 15-in. elm tree; rail spike	583. 76
Markham, 1.2 mi. E. of, 0.8 mi. N. thence 4.0 mi. W. from courthouse at Jacksonville, 0.25 mi. E. of center of sec. 15, T. 15 N., R. 11 W., 30 ft. S. and 35 ft. E. from rd. crossing, in SE. right-of-way fence corner, 2 ft. E. of corner post, in concrete post; standard tablet stamped "Prim Trav Sta No 3 Mac 1923 11 A" (recovered by U. S. C. & G. S. in 1933)	602. 512
Reference mark, 140 ft. W. of tablet, 35 ft. S. and 110 ft. W. from rd. crossing, in field, 4 ft. S. of R. R. right-of-way fence, in root on NE. side of 60-in. cottonwood tree; copper nail and washer	601. 97
Jacksonville, 0.8 mi. N. thence 2.9 mi. W. from, about 750 ft. W. of E $\frac{1}{4}$ cor. sec. 14, T. 15 N., R. 11 W., about 580 ft. E. of crossing of private rd., on top of SE. corner of S. head wall of stone culvert; chiseled square	594. 85
Jacksonville, 0.7 mi. N. and 1.7 mi. W. from, about 630 ft. S. of W $\frac{1}{4}$ cor. sec. 18, T. 15 N., R. 10 W., 35 ft. S. and 35 ft. E. from crossing of rd. and R. R., in SE. right-of-way fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 4 Mac 1923 12 A" (recovered in 1927)	603. 964
Reference mark, 20 ft. N. and 35 ft. E. from crossing, 4 ft. E. of NE. right-of-way fence corner, in root on NW. side of 10-in. hackberry tree; copper nail and washer	601. 92
Jacksonville, 0.3 mi. N. thence 1.7 mi. W. from, near SW. cor. sec. 18, T. 15 N., R. 10 W., in NE. corner of junction of T-rd. N., on top of E. head wall of concrete culvert; chiseled square	618. 86
Jacksonville, 0.3 mi. N. thence 1.5 mi. W. from, 0.2 mi. E. of NW. cor. sec. 19, T. 15 N., R. 10 W., E. of NE. corner of Morgan County Fair Grounds, at SE. corner of junction of T-rd. S., on top of S. end of concrete culvert; chiseled square	630. 50
Jacksonville, at W. end of Mound Avenue, 35 ft. S. and 35 ft. E. from junction of State Highway 36, 60 ft. W. of driveway to sanitarium, on E. side of sidewalk entrance, on top of NE. corner of concrete base of pebblestone column; chiseled square	686. 73
[Jogs into Jacksonville quadrangle, line 3]	
Jacksonville, 2.8 mi. S. and 2.0 mi. W. from, 0.25 mi. W. of NE. cor. sec. 1, T. 14 N., R. 11 W., 190 ft. E. of junction of T-rd. E., on S. side of rd., in front yard of residence, in root on N. side of 12-in. elm tree; copper nail and washer	638. 82
Jacksonville, 4.0 mi. S. and 2.0 mi. W. from, about 500 ft. N. of center of NE $\frac{1}{4}$ sec. 12, T. 14 N., R. 11 W., 800 ft. S. of junction of T-rd.	

	Feet
W., 640 ft. S. of bridge over Big Sandy Creek, 6 in. N. of middle post of pipe railing of concrete culvert, in center of top of E. head wall; chiseled square-----	590. 89
Jacksonville, 4.8 mi. S. and 2.0 mi. W. from, 1.2 mi. W. thence 5.7 mi. N. from Murrayville, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 13, T. 14 N., R. 11 W., 20 ft. S. and 25 ft. E. from crossroads, 2 ft. E. of fence corner, in concrete post; standard tablet stamped "13 A 1924"-----	645. 192
Reference mark, 80 ft. N. of tablet, 65 ft. N. and 40 ft. E. from crossroads, 35 ft. N. and 20 ft. E. from SW. corner of orchard, in root 15 in. from tree and 4 in. underground on W. side of 12-in. apple tree; copper nail and washer-----	644. 55
Murrayville, 1.2 mi. W. thence 4.7 mi. N. from, 0.25 mi. E. of SE. cor. sec. 13, T. 14 N., R. 11 W., 115 ft. W. of T-rd. W., on N. side of rd., in root on S. side of 24-in. wild-cherry tree; copper nail and washer-----	645. 46
Murrayville, 1.2 mi. W. thence 3.7 mi. N. from, 275 ft. N. of center of S. side SE $\frac{1}{4}$ sec. 24, T. 14 N., R. 11 W., 275 ft. N. of crossroads, on W. side of rd., in fence line, in root on SW. side of 12-in. elm tree; copper nail and washer-----	651. 63
Murrayville, 1.2 mi. W. thence 2.7 mi. N. from, 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 36, T. 14 N., R. 11 W., 20 ft. E. of junction of T-rd. N., on top of E. end of S. head wall of concrete culvert; chiseled square-----	644. 99
Murrayville, 1.2 mi. W. thence 2.5 mi. N. from, near N $\frac{1}{4}$ cor. sec. 36, T. 14 N., R. 11 W., 40 ft. W. of T-rd. S., on top of W. end of S. head wall of concrete culvert; chiseled square-----	636. 66
Murrayville, 2.2 mi. W. and 2.5 mi. N. from, near N $\frac{1}{4}$ cor. sec. 35, T. 14 N., R. 11 W., 15 ft. S. and 25 ft. E. from junction of T-rd. N., at NW. corner of yard of residence, in root 4 in. underground on N. side of 15-in. walnut tree; copper nail and washer-----	638. 76
Murrayville, 2.4 mi. W. and 2.5 mi. N. from, 9.3 mi. E. of Winchester, 0.25 mi. E. of SW. cor. sec. 26, T. 14 N., R. 11 W., 20 ft. N. and 40 ft. W. from junction of T-rd. S., on W. side of lane N. to house, in concrete post; standard tablet stamped "Prim Trav Sta No 89 W 1923 16 A"-----	620. 229
Winchester, 8.8 mi. E. of, 0.2 mi. W. of NE. cor. sec. 34, T. 14 N., R. 11 W., 130 ft. W. of top of hill, 70 ft. S. and 100 ft. W. from driveway to house on S. side of rd., in garden, in root on N. side of 15-in. apricot tree; copper nail and washer-----	635. 29
Winchester, 8.0 mi. E. of, near SE. cor. sec. 28, T. 14 N., R. 11 W., 35 ft. N. and 65 ft. W. from junction of T-rd. S., in orchard, 15 ft. N. of fence line, in root on SE. side of 12-in. maple tree; copper nail and washer-----	625. 96
Winchester, 7.0 mi. E. of, near SE. cor. sec. 29, T. 14 N., R. 11 W., diagonally opposite Harts School, 18 ft. N. and 30 ft. W. from crossroads, in SE. corner of yard of residence, in root on S. side of 24-in. maple tree; copper nail and washer-----	613. 71
Winchester, 6.0 mi. E. of, near NE. cor. sec. 31, T. 14 N., R. 11 W., 20 ft. S. and 30 ft. W. from junction of T-rd. S., 10 ft. W. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 88 W 1923 15 A"-----	595. 333
Winchester, 5.8 mi. E. of, 0.25 mi. W. of SE. cor. sec. 30, T. 14 N., R. 11 W., 25 ft. N. and 20 ft. E. from junction of T-rd. N., in field, in fence corner, in root on SW. side of 24-in. elm tree; copper nail and washer-----	588. 11

	Feet
Winchester, 4.9 mi. E. of, 0.2 mi. W. of NE. cor. sec. 36, T. 14 N., R. 12 W., 0.3 mi. E. of right-angle turn N. in rd, on S. side of rd, in front of residence of Robert McCarty, 4 ft. N. and 18 ft. E. from NW. corner of yard, in root on NW. side of 10-in. maple tree; copper nail and washer-----	576. 64
Winchester, 4.0 mi. E. of, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 25, T. 14 N., R. 12 W., 110 ft. E. of crossroads, on N. side of rd., in root on SW. side of 12-in. elm tree; copper nail and washer-----	549. 72
Winchester, 3.2 mi. E. of, near center of SW $\frac{1}{4}$ sec. 26, T. 14 N., R. 12 W., 30 ft. N. and 25 ft. W. from junction of T-rd. N., at Liberty School, in SE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 87 W 1923 14 A"-----	558. 691
Reference mark, 70 ft. NW. of tablet, at schoolhouse, on concrete floor of porch, 10 in. N. of SE. corner; chiseled square-----	559. 78
Winchester, 2.2 mi. E. of, near center of SW $\frac{1}{4}$ sec. 27, T. 14 N., R. 12 W., 60 ft. N. of T-junction of N-S. rd., 60 ft. N. of junction of private rd. W., on E. side of rd., in root 4 in. underground on S. side of triple-forked wild-cherry tree; copper nail and washer-----	555. 00
Winchester, 1.2 mi. E. of, just N. of center of sec. 28, T. 14 N., R. 12 W., 25 ft. N. and 25 ft. E. from junction of T-rd. E., 10 ft. E. of SW. corner of yard of residence, inside yard fence, in root on S. side of 8-in. locust tree; copper nail and washer-----	520. 13
Winchester, 1 block W. of intersection of Cherry and North Main Streets, at NE. corner of intersection of West Cherry and North Mechanic Streets, in SW. corner of yard at Presbyterian Church, in root on SE. side of 30-in. elm tree; copper nail and washer-----	545. 42
Winchester, at crossing of West Cherry Street and C. B. & Q. R. R., just S. of sta.; top of rail of main track-----	539. 0
5. From Glasgow along road south 3.6 miles (by S. R. Archer in 1924)	
Glasgow, 0.9 mi. S. of, in SW $\frac{1}{4}$ sec. 30, T. 13 N., R. 12 W., about 750 ft. SE. of bridge over Little Sandy Creek, on W. side of rd., in front yard of residence of Anna Fowler, in root on E. side of 30-in. walnut tree; copper nail and washer-----	481. 83
Glasgow, 1.8 mi. S. of, about 800 ft. E. of center of SE $\frac{1}{4}$ sec. 36, T. 13 N., R. 13 W., 85 ft. N. of junction of T-rd. W., on E. side of rd., in root on W. side of 30-in. oak tree; copper nail and washer-----	556. 46
Glasgow, 2.6 mi. S. of, N. of E $\frac{1}{4}$ cor. sec. 1, T. 12 N., R. 13 W., in SW. angle of junction of T-rd. W., at fence corner, in root 8 in. underground on S. side of 5-in. walnut tree; copper nail and washer-----	627. 81
Glasgow, 3.2 mi. S. of, near NE. cor. sec. 12, T. 12 N., R. 12 W., in SW angle of junction of T-rd. W., in root on E. side of 24-in. maple tree used as fence corner; copper nail and washer-----	634. 48
[Continued in Roodhouse quadrangle, line 1]	
6. From point 2.6 miles west and 0.4 mile south from Barrow along roads north, east, and south to point 1.5 miles east and 1.1 miles north from Roodhouse (by S. R. Archer in 1924)	
[Continued from Roodhouse quadrangle, line 1]	
Barrow, 2.3 mi. W. of, near center of N. side NW $\frac{1}{4}$ sec. 9, T. 12 N., R. 12 W., 20 ft. N. and 20 ft. W. from junction of T-rd. N., 5 ft. W. of fence corner, in concrete post; standard tablet stamped "18 A 1924"-----	644. 201

	Feet
Reference mark, 45 ft. E. of tablet, in NE. angle of rd. junction, 10 ft. E. of fence corner, in field, in root on NE. side of 30-in. oak tree; copper nail and washer-----	647. 97
Barrow, 1.3 mi. W. of, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 3, T. 12 N., R. 12 W., in NE. angle of crossroads, 8 ft. E. of fence corner, in field, in root 6 in. underground on S. side of 5-in. boxelder tree; copper nail and washer-----	649. 69
Barrow, 0.7 mi. W. of, near SW. cor. of sec. 2, T. 12 N., R. 12 W., 130 ft. E. of junction of T-rd. N., on N. side of rd., in field, in root on S. side of 36-in. oak tree; copper nail and washer-----	644. 03
Barrow, 90 ft. S. and 100 ft. W. from crossing of C. B. & Q. R. R., 90 ft. S. and 160 ft. E. from junction of T-rd. S., on W. side of street leading to sta., at front entrance of schoolhouse, in top of N. end of lower concrete step; chiseled square-----	653. 15
Barrow, 1.1 mi. E. of, 0.5 mi. W. thence 1.6 mi. N. from Roodhouse, near S $\frac{1}{4}$ cor. sec. 1, T. 12 N., R. 12 W., 15 ft. N. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 51 1911 19 A"-----	663. 268
Reference mark, 50 ft. E. of iron post, in NE corner of crossroads, in root 6 in. underground on SE. side of forked locust tree used as fence corner; copper nail and washer-----	661. 90
Barrow, 2.2 mi. E. of, 95 ft. N. and 320 ft. E. from SW. cor. sec. 6, T. 12 N., R. 11 W., 60 ft. N. of rd., in field, in root 4 in. underground on SE. side of 18-in. walnut tree; copper nail and washer-----	666. 06
Barrow, 3.1 mi. E. of, 2.7 mi. SW. of Manchester, 1.8 mi. NE. of Roodhouse, about 800 ft. E. of SW. cor. sec. 5, T. 12 N., R. 11 W., 80 ft. N. and 60 ft. W. from intersection of U. S. Highway 67, at front entrance of farmhouse, on top of N. end of lower concrete step; chiseled square-----	666. 60
Roodhouse, 1.5 mi. E. thence 1.5 mi. N. from, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 8, T. 12 N., R. 11 W., 160 ft. S. of T-junction of N.-S. rd., on E. side of rd., on top of E. head wall of concrete culvert, 3 ft. S. of N. end; chiseled square-----	646. 70

[Continued in Roodhouse quadrangle, line 2]

7. From point 2.8 miles east of corner of Greene, Morgan, and Scott Counties generally north along roads to point 0.6 mile north of Murrayville (by S. R. Archer in 1924)

[Continued from Jacksonville quadrangle, line 4]

Murrayville, 4.3 mi. in air line S. of, near center of SE $\frac{1}{4}$ sec. 31, T. 13 N., R. 10 W., 65 ft. W. of junction of T-rd. W., on N. side of rd., in root on S. side of 24-in. hickory tree; copper nail and washer-----	614. 07
Murrayville, 3.6 mi. S. of, near center of N. side NE $\frac{1}{4}$ sec. 31, T. 13 N., R. 10 W., 60 ft. N. and 35 ft. E. from junction of T-rd. E., 40 ft. N. and 15 ft. E. from SW corner of yard of residence, in root on SE. side of 24-in. oak tree; copper nail and washer-----	632. 91
Murrayville, 3.0 mi. S. of, about 580 ft. E. of center of sec. 30, T. 13 N., R. 10 W., 20 ft. N. and 20 ft. E. from junction of T-rd. S., on N. side of rd., opposite and in line with fence on E. side of rd. S., in concrete post; aluminum tablet stamped "23 A 1924"-----	650. 500
Reference mark, 45 ft. S. of tablet, in SE. angle of T-junction of N.-S. rd., 5 ft. S. of fence corner, in root 6 in. underground on W. side of 8-in. oak tree; copper nail and washer-----	649. 46

900 SPIRIT LEVELING IN ILLINOIS—PART 2, WEST-CENTRAL ILLINOIS

Murrayville, 3.0 mi. S. and 0.8 mi. W. from, near W $\frac{1}{4}$ cor. sec. 30, T. 13 N., R. 10 W., 100 ft. E. of T-junction of N.-S. rd., at SE. corner of bridge, on top 3 ft. W. of E. end of concrete wing wall; chiseled square-----	Feet 626.30
Murrayville, 2.0 mi. S. and 0.8 mi. W. from, near E $\frac{1}{4}$ cor. sec. 24, T. 13 N., R. 11 W., in SW. angle of junction of T-rd. W., at fence corner, in root on W. side of 6-in. elm tree; copper nail and washer-----	665.91
Murrayville, 1.2 mi. S. and 0.8 mi. W. from, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 18, T. 13 N., R. 10 W., on E. side of rd., at fence line, in root on S. side of northernmost of two hackberry trees, 4 and 6 in. in diameter, standing together; copper nail and washer-----	685.16
Murrayville, at S. edge of, in NE. angle of junction of E.-W. rd. and Main Street, in root on W. side of 30-in. maple tree; copper nail and washer-----	695.04
Murrayville, on W. side of Main Street, on E. side at SE. corner of Methodist Episcopal Church, at main entrance, on top of S. end of lower stone step; chiseled square-----	692.82
Murrayville, at crossing of Chicago & Alton R. R.; top of rail-----	686.8
Murrayville, at SW. corner of intersection of Main and Prospect Streets, on E. side at NE. corner of Murrayville State Bank Building, on top of stone water table; chiseled square-----	693.66
[Jogs into Jacksonville quadrangle, line 5]	
Murrayville, 0.6 mi. N. of, about 800 ft. S. of center of SE $\frac{1}{4}$ sec. 6, T. 13 N., R. 10 W., 13 ft. N. and 35 ft. W. from T-junction of E.-W. rd., in root on S. side of 30-in. boxelder tree; copper nail and washer-----	693.01

[Continued in Jacksonville quadrangle, line 6]

WOODHULL QUADRANGLE

[Latitude $41^{\circ}00'$ – $41^{\circ}15'$; longitude $90^{\circ}15'$ – $90^{\circ}30'$]

HENRY, KNOX, MERCER, AND WARREN COUNTIES

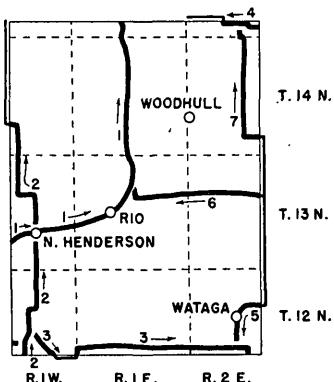


FIGURE 156.—Lines of leveling in Woodhull quadrangle.

1. From point 1.2 miles southwest of North Henderson northeast and north along Chicago, Burlington & Quincy Railroad to point near Ophiem (by R. G. Clinite in 1914)

[Continued from Alexis quadrangle, line 1]

	Feet
North Henderson, 500 ft. SW. of sta., 4.4 mi. NE. of Alexis, 120 ft. S. of track, on W. side of street, 3 ft. E. of hedge row; standard iron post with bronze cap stamped "776" (recovered in 1921)-----	773. 654
North Henderson, 3.1 mi. NE. of, 1.3 mi. SW. of Rio, 1,000 ft. NE. of milepost 209, 60 ft. SE. of center line of track, on W. side of rd.; standard iron post with bronze cap stamped "782"-----	780. 473
Rio, 700 ft. SW. of sta., 400 ft. N. of post office, 15 ft. SE. of right-of-way, in root on N. side of 38-in. maple tree; rail spike-----	780. 37
Rio, 2.1 mi. N. of, 3.6 mi. S. of Alpha, at Union School, District No. 29, 180 ft. W. of crossroads, 300 ft. E. of bridge at rd. crossing, in NW. corner of schoolyard; standard iron post with bronze cap stamped "773" (recovered by U. S. C. & G. S. in 1935)-----	771. 419
Alpha, 600 ft. N. of sta., 65 ft. W. of center line of track, in NE. corner of yard of dwelling of Matt Willett; standard iron post with bronze cap stamped "806" ⁶⁴ -----	804. 269
Alpha, 2.3 mi. N. of, 2.0 mi. S. of Ophiem, in SW. angle of rd. crossing, 300 ft. E. of District No. 4 School, 50 ft. W. of center line of track, 2 ft. S. of fence corner, in root of 12-in. maple tree; rail spike-----	776. 87

[Continued in Orion quadrangle, line 2]

⁶⁴ In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 53 1934," elevation 802,931 ft.

2. From point 1.2 miles north of Utah generally north along roads by way of North Henderson to point 2.2 miles south of Hopewell (by S. R. Archer in 1921)

[Continued from Galesburg quadrangle, line 2]

	Feet
Utah, 1.5 mi. N. of, on line between secs. 22 and 27, T. 12 N., R. 1 W., 25 ft. SE. of junction of T-rd. W., 3 ft. S. and 3 ft. W. from gate, on E. side of rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 24 1919 733" (recovered in 1924)	731. 657
Reference mark, 580 ft. W. of iron post, 0.1 mi. W. of rd. junction, on N. side of rd., at fence line, in root on N. side of 30-in. elm tree; copper nail and washer	729. 80
Utah, 2.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 22, T. 12 N., R. 1 W., 140 ft. S. of junction of T-rd. W., on E. side of rd., at W. end of walk in front of dwelling, on top of NW. corner of concrete stepping block on NW. side of iron hitching post; chiseled square	697. 93
Utah, 3.5 mi. N. of, 3.8 mi. S. and 0.5 mi. W. from North Henderson, near N $\frac{1}{4}$ cor. sec. 15, T. 12 N., R. 1 W., 125 ft. S. of junction of T-rd. S., on W. side of rd., 5 ft W. of fence, in field, in root on E. side of large forked cottonwood tree; copper nail and washer	718. 87
North Henderson, 3.8 mi. S. of, near NW. cor. sec. 14, T. 12 N., R. 1 W., 200 ft. E. of junction of T-rd. N., on S. side of rd., in root on W. side of 12-in. cherry tree; copper nail and washer	686. 60
North Henderson, 2.8 mi. S. of, near SW. cor. sec. 2, T. 12 N., R. 1 W., in NE. angle of crossroads, 8 ft. E. of fence corner, in concrete post; standard tablet stamped "1921 750"	749. 631
Reference mark, 235 ft. E. of tablet, on N. side of rd., on W. side of gate to dwelling, in root on NW. side of 24-in. tree, westernmost of two maple trees; copper nail and washer	752. 66
North Henderson, 2.1 mi. S. of, 0.15 mi. N. of W $\frac{1}{4}$ cor. sec. 2, T. 12 N., R. 1 W., at bridge over creek, at SW. end of wing wall of N. concrete abutment, on top of E. end of parapet; chiseled square	694. 72
North Henderson, 1.8 mi. S. of, near SW. cor. sec. 35, T. 13 N., R. 1 W., at Mercer-Warren county line, at offset crossroads, 30 ft. N. and 40 ft. E. from junction of rd. N., at two rows of maple trees running N., in root on W. side of 12-in. tree, southernmost in E. row; copper nail and washer	732. 47
North Henderson, 0.4 mi. S. of, 480 ft. S. of quarter corner between secs. 26 and 27, T. 13 N., R. 1 W., 480 ft. S. of crossroads, on W. side of rd., near S. end of S. retaining wall, at W. end of concrete culvert; chiseled square	748. 95
North Henderson, 0.2 mi. N. of, near SW. cor. sec. 23, T. 13 N., R. 1 W., in NE. angle of crossroads, 10 ft. N. of fence corner, in root on W. side of small boxelder tree; copper nail and washer	781. 61
North Henderson, 1.2 mi. N. of, near SW. cor. sec. 14, T. 13 N., R. 1 W., 170 ft. E. of crossroads, on N. side of rd., in root 3 in. underground on NW. side of forked wild-cherry tree; copper nail and washer	754. 08
North Henderson, 1.9 mi. N. of, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 14, T. 13 N., R. 1 W., at bridge over North Henderson Creek, on top near center of NE. concrete wing wall; chiseled square	702. 93
North Henderson, 2.2 mi. N. thence 0.2 mi. W. from, 0.2 mi. W. of SE. cor. sec. 10, T. 13 N., R. 1 W., 0.2 mi. W. of crossroads, on	

	Feet
top of N. concrete head wall of culvert under E.-W. rd.; chiseled square-----	726. 91
North Henderson, 2.2 mi. N. thence 0.8 mi. W. from, 0.2 mi. E. thence 3.5 mi. S. from Oak Ridge School, near SW. cor. sec. 9, T. 13 N., R. 1 W., in NW. angle of crossroads, 5 ft. W. of fence corner, in concrete post; aluminum tablet stamped "1921 730" and "Prim Trav Sta No 17 1923" (recovered in 1923)-----	729. 296
Reference mark, 70 ft. S. and 20 ft. W. from crossroads, 40 ft. S. of fence corner, on W. side of N.-S. rd., in root 4 in. underground on NE. side of 5-in. wild-cherry tree; copper nail and washer-----	729. 44
Oak Ridge School, 0.2 mi. E. thence 2.5 mi. S. from, near NE. cor. sec. 9, T. 13 N., R. 1 W., in SW. angle of crossroads, at NE. corner of schoolyard, in root on SE. side of 36-in. maple tree; copper nail and washer-----	784. 26
Oak Ridge School, 0.2 mi. E. thence 1.9 mi. S. from, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 4, T. 13 N., R. 1 W., at foot of hill, on top near center of W. concrete head wall of culvert; chiseled square-----	725. 20
Oak Ridge School, 0.2 mi. E. thence 1.5 mi. S. from, near SE. cor. sec. 33, T. 14 N., R. 1 W., at bridge over Pope Creek, on top of S. end of SE. wing wall; chiseled square-----	690. 93
Oak Ridge School, 0.2 mi. E. thence 1.0 mi. S. from, near E $\frac{1}{4}$ cor. sec. 33, T. 14 N., R. 1 W., on W. side of N.-S. rd., opposite junction of T-rd. E., 40 ft. N. of private rd. W.; in line with fence along N. side of rd. E., in field, in root on NW. side of 4-in. boxelder tree; copper nail and washer-----	733. 24
Oak Ridge School, 0.2 mi. E. of, near E $\frac{1}{4}$ cor. sec. 28, T. 14 N., R. 1 W., 25 ft. S. and 50 ft. W. from crossroads, 25 ft. W. of fence corner; standard iron post with bronze cap stamped "1921 801"-----	800. 356
Reference mark, 25 ft. E. of iron post, in fence corner, in root on SE. side of 6-in. hedge tree; copper nail and washer-----	799. 49
Oak Ridge School, 2.2 mi. S. of Hopewell, 0.25 mi. E. of center of sec. 28, T. 14 N., R. 1 W., on S. side of rd., at entrance to schoolhouse, on SE. corner of top concrete step; chiseled square-----	798. 85

[Continued in Alexis quadrangle, line 4]

3. From point 1.5 miles northwest of Utah generally east along roads to point 1.9 miles south and 0.5 mile east from Wataga (by G. F. Williams in 1924)

Utah, 2.7 mi. N. of, 0.25 mi. N. of center of sec. 22, T. 12 N., R. 1 W., at junction of rd. SE., on SE. steel pier of iron bridge over creek; top of bolt-----	659. 38
T. 12 N., R. 1 W., 0.1 mi. NW. of S $\frac{1}{4}$ cor. sec. 23, on SW. side of rd., 130 ft. SE. of driveway to dwelling of John Smith, on SE. bank of creek, inside fence, in root on E. side of 30-in. elm tree; copper nail and washer-----	732. 88

[Jogs into Galesburg quadrangle, line 5]

T. 12 N., R. 1 W., 0.15 mi. N. of SE. cor. sec. 24, on W. side of rd., at ruins of burnt house, in front of gate, on SE. corner of concrete walk; chiseled square-----	761. 70
T. 12 N., R. 1 E., near N. cor. secs. 29 and 30, at right-angle turn in rd. from N. to E., on S. side of E.-W. rd., 1 ft. N. of fence, 15 ft. NW. of gate, on top of 8- by 10-in. granite stone; chiseled mark-----	760. 77

	Feet
T. 12 N., R. 1 E., near SW. cor. sec. 21, 0.1 mi. E. of junction of T-rd. S., on top of W. end of N. head wall of concrete culvert; chiseled square	757.22
T. 12 N., R. 1 E., near NE. cor. sec. 28, 1.2 mi. S. and 1.5 mi. W. from Henderson, 25 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 94 K 1924 W 33"	791.356
Reference mark, 115 ft. SW. of tablet, in pasture, 25 ft. W. of fence line, in root on NE. side of 30-in. hickory tree; copper nail and washer	791.74
Henderson, 1.2 mi. S. and 0.5 mi. W. from, near S. cor. secs. 22 and 23, T. 12 N., R. 1 E., at junction of T-rd. S., on N. side of rd., inside wire gate with caption "A. U. Dunbar" over top, 6 in. N. of W. gatepost, on S. end of concrete curb; chiseled square	805.90
Henderson, 1.2 mi. S. of, 0.39 mi. E. of SW. cor. sec. 23, T. 12 N., R. 1 E., in NW. angle of junction of T-rd. N., on top of NW. concrete head wall of culvert; chiseled square ^{as}	806.06
Henderson, 1.2 mi. S. and 0.5 mi. E. from, near N. cor. secs. 25 and 26, T. 12 N., R. 1 E., at five-way rd. fork, in angle formed by rds. SE. and S., 50 ft. S. of center of intersection, in root on W. side of large black-locust tree; copper nail and washer	817.71
Henderson, 1.2 mi. S. and 1.5 mi. E. from, 1.5 mi. S. and 2.5 mi. W. from Wataga, 28 ft. S. and 23 ft. W. from E. cor. secs. 24 and 25, T. 12 N., R. 1 E., in SW. angle of junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 95 K 1924 W 34"	825.366
Reference mark, in root on S. side of large cottonwood tree in rd.; copper nail and washer	825.82
Wataga, 1.5 mi. S. and 1.5 mi. W. from, near SE. cor. sec. 19, T. 12 N., R. 2 E., in NW. angle of crossroads, on top of W. head wall of small concrete culvert under rd. N.; chiseled square	832.90
Wataga, 1.5 mi. S. and 1.2 mi. W. from, 0.3 mi. E. of SW. cor. sec. 20, T. 12 N., R. 2 E., on W. side of concrete highway, on N. end of round concrete drain tile under E. approach of Chicago, Burlington & Quincy R. R. crossing; chiseled square	829.79
Wataga, 1.5 mi. S. and 0.5 mi. W. from, near NW. cor. sec. 28, T. 12 N., R. 2 E., in SE. angle of crossroads, 10 ft. E. of NW. corner of and inside picket fence, in root on NW. side of 24-in. maple tree; copper nail and washer	835.05
Wataga, 1.0 mi. S. of, near N ¹ / ₄ cor. sec. 28, T. 12 N., R. 2 E., in SE. angle of crossroads, 1.5 ft. N. and 15 ft. E. from NW. corner of picket fence, on N. side of 30-in. maple tree, in root projecting under fence; copper nail and washer (recovered in 1927)	832.80
Wataga, 1.0 mi. S. and 0.5 mi. E. from, near NW. cor. sec. 27, T. 12 N., R. 2 E., 30 ft. S. and 30 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 96 K 1924 W 35"	828.297
Reference mark, 0.22 mi. S. of tablet, on top of E. head wall of concrete culvert; chiseled square	809.54

[Continued in Galesburg quadrangle, line 6]

^{as} In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Y 58 1934," elevation 813.250 ft.

4. From point near center of sec. 34, T. 15 N., R. 2 E., alternately west and north to point near north corner secs. 32 and 33, T. 15 N., R. 2 E. (by H. S. Seneney in 1927)

[Continued from Galva quadrangle, line 1]

	Feet
T. 15 N., R. 2 E., near center of sec. 34, on E. side of rd., in root of tree; copper nail and washer	793. 98
T. 15 N., R. 2 E., 0.25 mi. N. and 0.25 mi. E. from center of sec. 33, 200 ft. NE. of Maple Valley School, 30 ft. N. and 20 ft. E. from cross-roads, in concrete post; standard tablet stamped "Prim Trav Sta No 108 K 1924"	747. 923
Reference mark, 90 ft. SW. of tablet, in root of tree; copper nail and washer	747. 06
T. 15 N., R. 2 E., 0.25 mi. S. of N. cor. secs. 32 and 33, 5 ft. E. of fence along section line, 1 ft. N. of E.-W. fence; cap on 1-in. galvanized pipe	749. 25

[Continued in Orion quadrangle, line 5]

5. From point 2.3 miles south and 1.3 miles west from Oneida along roads west and south to road junction 1.5 miles south of Wataga (by H. S. Seneney in 1927)

[Continued from Galva quadrangle, line 2]

Wataga, 1.0 mi. NE. of, 2.3 mi. S. and 2.3 mi. W. from Oneida, 240 ft. E. of SW. cor. sec. 10, T. 12 N., R. 2 E., on N. side of rd., on culvert; chiseled square	838. 77
Wataga, on S. end of lowest step of Congregational Church; chiseled square	833. 57
6. From point 0.5 mile north and 4.7 miles west from Altona along roads west and north to point on Chicago, Burlington & Quincy Railroad 2.1 miles northeast of Rio (by H. S. Seneney in 1927)	

[Connects with line 2 in Galva quadrangle]

Altona, 0.5 mi. N. and 5.7 mi. W. from, 1.0 mi. N. and 7.0 mi. E. from Rio, near W. cor. secs. 10 and 15, T. 13 N., R. 2 E., on E. side of N.-S. rd., at junction of T-rd. W., on culvert; chiseled square	760. 25
Rio, 1.0 mi. N. and 6.0 mi. E. from, near SE. cor. sec. 8, T. 13 N., R. 2 E., in NW. angle of crossroads, in root of tree; copper nail and washer	765. 88
Rio, 1.0 mi. N. and 5.0 mi. E. from, near SW. cor. sec. 8, T. 13 N., R. 2 E., in NE. angle of crossroads, in root of tree; copper nail and washer	776. 23
Rio, 1.0 mi. N. and 4.0 mi. E. from, 27 ft. W. of W. cor. secs. 7 and 18, T. 13 N., R. 2 E., at offset crossroads, opposite junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 113 K 1924"	778. 786
Reference mark, 325 ft. E. of tablet, on N. side of rd., in root of tree; copper nail and washer	780. 62
Rio, 1.0 mi. N. and 3.0 mi. E. from, near NE. cor. sec. 13, T. 13 N., R. 1 E., in SE. angle of crossroads, in root of tree; copper nail and washer	751. 92
Rio, 1.0 mi. N. and 2.0 mi. E. from, near NE. cor. sec. 15, T. 13 N., R. 1 E., in SW. angle of crossroads, 17 ft. W. of corner fence post; cap on 1-in. galvanized pipe	775. 89

Rio, 1.0 mi. N. and 1.0 mi. E. from, 24 ft. N. and 20 ft. E. from SW. cor. sec. 10, on N. side of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 112 K 1924" _____ Feet
775.784
Reference mark, 115 ft. W. of tablet, on S. side of rd., in root of tree; copper nail and washer _____ 777.43

7. From point near northeast corner sec. 34, T. 14 N., R. 2 E., west along road 0.8 mile, thence north to crossroads in northeast quarter sec. 33, T. 15 N., R. 2 W. (by H. S. Senseney in 1927)

[Continued from Galva quadrangle, line 3]

T. 14 N., R. 2 E., near NW. cor. sec. 34, in SE. angle of crossroads, in root of tree; nail _____	799.02
T. 14 N., R. 2 E., near NE. cor. sec. 28, 2.7 mi. E. of Woodhull, in SW. angle of crossroads, in root of tree; copper nail and washer _____	796.92
T. 14 N., R. 2 E., near NE. cor. sec. 21, in SW. angle of crossroads, in root of tree; wire nail and washer _____	774.26
T. 14 N., R. 2 E., near SW. cor. sec. 10, 200 ft. SE. of Clover Chapel, 35 ft. N. and 32 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 107 K 1924" _____	778.280
Reference mark, 17 ft. NE. of tablet, in root of tree; nail _____	779.38
T. 14 N., R. 2 E., near SW. cor. sec. 3, 320 ft. N. of crossroads, on E. side of rd., in root of tree; wire nail and washer _____	797.00
T. 15 N., R. 2 E., near SE. cor. sec. 33, on N. side of E.-W. rd., in line with center of rd. S., in root of tree; nail _____	793.34

SUPPLEMENTAL ELEVATIONS

The following table shows altitudes of well-known features in west-central Illinois, such as summits, water surfaces, and tops of rails at railroad stations, as assembled from the topographic maps and records of the Geological Survey and from other sources. These altitudes, with the exception of some which were determined by spirit leveling along railroads, were obtained by barometric and vertical-angle measurements. The figures given are in accord with the latest information, but they are only approximate and should not be used for accurate work.

Supplemental elevations in west-central Illinois

Location	Quadrangle	County	Elevation (feet)
Abingdon, C. B. & Q. R. R.	Galesburg	Knox	733
Adair, C. B. & Q. R. R.	Vermont	McDonough	653
Alexander, Wabash Ry.	Jacksonville	Morgan	660
Alpha, C. B. & Q. R. R.	Woodhull	Henry	804
Appleton, A. T. & S. F. Ry.	Maquon	Knox	604
Arnold, Wabash Ry.	Jacksonville	Morgan	645
Atwater, C. B. & Q. R. R.	Raymond	Macoupin	638
Auburn, C. B. & Q. R. R.	Davenport	Sangamon	626
Augusta, C. B. & Q. R. R.	Augusta	Hancock	676
Avon, C. B. & Q. R. R.	Avon	Fulton	643
Bardolph, C. B. & Q. R. R.	McComb	McDonough	673
Barnet, C. B. & Q. R. R.	Raymond	Montgomery	659
Barry, Wabash Ry.	Barry	Pike	673
Bates, Wabash Ry.	Waverly	Sangamon	642
Baylis, Wabash Ry.	Pittsfield	Pike	872
Berry, B. & O. R. R.	Taylorville	Sangamon	590
Biggsville, C. B. & Q. R. R.	Oquawka	Henderson	649
Blandinsville, T. P. & W. R. R.	LaHarpe	McDonough	732
Bluff Hall, C. B. & Q. R. R.	Quincy	Adams	481
Bluffs, Wabash Ry.	Griggsville-Meredosia	Scott	471
Bradford, C. B. & Q. R. R.	Camp Grove	Stark	799
Breckenridge, B. & O. R. R.	Taylorville	Sangamon	589
Brimfield, C. B. & Q. R. R.	Elmwood	Peoria	724
Bryant, C. B. & Q. R. R.	Havana	Fulton	621
Buffalo, Wabash Ry.	Cornland	Sangamon	611
Bushnell, C. B. & Q. R. R.	Good Hope	McDonough	658
Bushnell, T. P. & W. R. R.	Good Hope	McDonough	661
Cameron, C. B. & Q. R. R.	Monmouth	Warren	776
Camp Point, C. B. & Q. R. R.	Camp Point	Adams	736
Canton, C. B. & Q. R. R. at crossing of T. P. & W. R. R.	Canton	Fulton	662
Castleton, C. B. & Q. R. R.	Camp Grove	Stark	791
Chapin, Wabash Ry.	Arenzville	Morgan	628
Chatham, C. B. & Q. R. R.	Davenport	Sangamon	606
Clayton, Wabash Ry.	Augusta	Adams	736
Coatsburg, C. B. & Q. R. R.	Camp Point	Adams	764

Supplemental elevations in west-central Illinois—Continued

Location	Quadrangle	County	Elevation (feet)
Colchester, C. B. & Q. R. R.	Colchester	McDonough	697
Concord Reservoir	Arenzville	Morgan	562
Cuba, T. P. & W. R. R. at crossing of C. B. & Q. R. R.	Havana	Fulton	677
Curran, Wabash Ry.	Waverly	Sangamon	626
Dahinda, A. T. & S. F. Ry.	Maquon	Knox	599
Dallas City, A. T. & S. F. Ry.	Lomax	Hancock-Henderson	537
Dawson, Wabash Ry.	Cornland	Sangamon	599
Dresser, Wabash Ry.	Meredosia	Morgan	447
Duncan, C. B. & Q. R. R.	Elmwood	Stark	661
Edelstein, A. T. & S. F. Ry.	Dunlap	Peoria	779
Edinburg, B. & O. R. R.	Taylorville	Christian	586
Elmwood, C. B. & Q. R. R.	Elmwood	Peoria	623
Ewbanks, C. B. & Q. R. R.	Quincy	Adams	729
Fall Creek, C. B. & Q. R. R.	Quincy	Adams	474
Farmington, C. B. & Q. R. R.	Canton-Glasford	Fulton	743
Fowler, C. B. & Q. R. R.	Mendon	Adams	729
Gilbirds, Wabash Ry.	Meredosia	Brown	664
Gillett Hill	Lincoln	Logan	771
Girard, C. B. & Q. R. R.	Carlinville	Macoupin	673
Good Hope, T. P. & W. R. R.	Good Hope	McDonough	715
Griggsville, Wabash Ry.	Griggsville	Pike	688
Hadley, Wabash Ry.	Pittsfield	Pike	756
Henderson, C. B. & Q. R. R.	Woodhull	Knox	812
Henry Δ	Lacon	Marshall	491
Hersman, Wabash Ry.	Meredosia	Brown	699
Hulls, Wabash Ry.	Barry	Pike	470
Indian Hill	Geneseo	Henry	672
Jacksonville, Wabash Ry.	Jacksonville	Morgan	592
Kinderhook, Wabash Ry.	Barry	Pike	480
Kirkwood, C. B. & Q. R. R.	Monmouth-Oquawka	Warren	749
Knox, A. T. & S. F. Ry.	Galesburg	Knox	662
LaHarpe, T. P. & W. R. R.	LaHarpe	Hancock	696
Lake Bracken	Galesburg	Knox	696
Lanesville, Wabash Ry.	Cornland	Sangamon	598
Laura, A. T. & S. F. Ry.	Elmwood	Peoria	731
Lilly, C. C. C. & St. L. Ry.	Mackinaw	Tazewell	802
Lomax, A. T. & S. F. Ry.	Lomax	Henderson	551
Lombardville, C. B. & Q. R. R.	Camp Grove	Stark	751
Mackinaw, C. C. C. & St. L. Ry.	Mackinaw	Tazewell	645
Macomb, C. B. & Q. R. R.	Macomb	McDonough	705
Marblehead, C. B. & Q. R. R.	Quincy	Adams	478
Marietta, T. P. & W. R. R.	Avon-Vermont	Fulton	549
Markham, Wabash Ry.	Winchester	Morgan	591
Mauvaise Terre Lake	Jacksonville	Morgan	589
Maysville Sta., Wabash Ry.	Pittsfield	Pike	723
Menert, C. C. C. & St. L. Ry.	Mackinaw	Tazewell	595
Meredosia, Wabash Ry.	Meredosia	Morgan	448
Monica, A. T. & S. F. Ry at crossing C. B. & Q. R. R.	Elmwood	Peoria	772
Monmouth, C. B. & Q. R. R.	Monmouth	Warren	776
Mount Sterling, Wabash Ry.	Mount Sterling	Brown	720

Supplemental elevations in west-central Illinois—Continued

Location	Quadrangle	County	Elevation (feet)
Naples, Wabash Ry.....	Meredosia.....	Scott.....	439
Neelys Sta., Wabash Ry.....	Arenzville.....	Morgan.....	563
New Berlin, Wabash Ry.....	Waverly.....	Sangamon.....	655
New Salem, Wabash Ry.....	Pittsfield.....	Pike.....	782
Nokomis, C. C. & St. L. Ry.....	Morrisonville.....	Montgomery.....	672
Norris, C. B. & Q. R. R.....	Canton.....	Fulton.....	731
Orleans, Wabash Ry.....	Jacksonville.....	Morgan.....	658
Paloma, C. B. & Q. R. R.....	Camp Point.....	Adams.....	739
Pekin, C. C. C. & St. L. Ry.....	Peoria.....	Tazewell.....	467
Perry Springs, Wabash Ry.....	Meredosia.....	Brown.....	441
Plymouth, C. B. & Q. R. R.....	Colchester.....	Hancock.....	646
Pontoosuc, A. T. & S. F. Ry.....	Lomax.....	Hancock.....	535
Prairie City, C. B. & Q. R. R.....	Avon.....	McDonough.....	661
Princeville, A. T. & S. F. Ry.....	Elmwood.....	Peoria.....	744
Quincy, C. B. & Q. R. R.....	Quincy.....	Adams.....	514
Rice Lake.....	Galesburg.....	Knox.....	756
Rio, C. B. & Q. R. R.....	Woodhull.....	Knox.....	777
Riverton, Wabash Ry.....	Springfield.....	Sangamon.....	549
Rockbridge, C. B. & Q. R. R.....	Greenfield.....	Greene.....	546
St. Augustine, C. B. & Q. R. R.....	Avon.....	Knox.....	648
St. David, C. B. & Q. R. R.....	Havana.....	Fulton.....	631
Sciota, T. P. & W. R. R.....	LaHarpe.....	McDonough.....	757
Seehorn, C. B. & Q. R. R.....	Quincy.....	Pike.....	480
Sepo, C. B. & Q. R. R.....	Havana.....	Fulton.....	455
Seville, T. P. & W. R. R.....	Vermont.....	Fulton.....	499
Sharpsburg, B. & O. R. R.....	Taylorville.....	Christian.....	603
Smithfield, T. P. & W. R. R.....	Vermont.....	Fulton.....	648
Soldiers Home, C. B. & Q. R. R.....	Quincy.....	Adams.....	570
Spring Lake.....	Glasford.....	Tazewell.....	431
Springfield, Wabash Ry.....	Springfield.....	Sangamon.....	604
Taylorville, B. & O. R. R.....	Taylorville.....	Christian.....	623
Tennessee, C. B. & Q. R. R.....	Colchester.....	McDonough.....	690
Thayer, C. B. & Q. R. R.....	Waverly.....	Sangamon.....	647
Timewell, Wabash Ry.....	Augusta.....	Brown.....	755
Tremont, C. C. C. & St. L. Ry.....	Mackinaw.....	Tazewell.....	643
Valley City, Wabash Ry.....	Griggsville.....	Pike.....	441
Versailles, Wabash Ry.....	Meredosia.....	Brown.....	588
Virden, C. B. & Q. R. R.....	Carlinville-Waverly.....	Macoupin.....	676
Wilbern, A. T. & S. F. Ry.....	Metamora.....	Marshall.....	556
Williamsfield, A. T. & S. F. Ry.....	Maquon.....	Knox.....	712
Wyoming, C. B. & Q. R. R.....	Toulon.....	Stark.....	707



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