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Harold L. Ickes, Secretary

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W. C. Mendenhall, Director

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TRANSIT TRAVERSE IN MISSOURI

PART 6. NORTHEASTERN MISSOURI

1900-37

J. G. STAACK

Chief Topographic Engineer

Prepared in cooperation with the
STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
H. A. Buehler, Director



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TRANSIT TRAVERSE IN MISSOURI

PART 6. NORTHEASTERN MISSOURI, 1900-1937

J. G. Staack, Chief Topographic Engineer

INTRODUCTION

Scope of report.—This bulletin, which for convenience is to be published in eight parts, contains the results of all transit traverse* done in Missouri through 1937 by the Geological Survey, United States Department of the Interior, including those heretofore published. (See page X.) Each of the parts deals with one of eight sections into which the State has been divided for this purpose and which have been designated northeastern, northwestern, southeastern, southwestern, central, east-central, south-central, and west-central Missouri. In each part descriptions of the points for which geodetic positions have been determined are listed according to the quadrangles in which the points occur. Results of transit traverse other than that done by the Geological Survey have not been included.

Cooperation.—The State has contributed financially to the work of transit traverse in Missouri since 1907, ordinarily cooperating with the United States Geological Survey on a dollar-for-dollar basis. The agencies concerned in this cooperation are the Missouri Geological Survey and Water Resources and, since 1929, the Missouri State Highway Commission. Since 1934, the Missouri Geological Survey and Water Resources, under allotments from the Federal Emergency Relief Administration and the Works Progress Administration, has also supplied the funds to pay the personnel working on extensive projects of horizontal control in the State. For these projects the United States Geological Survey has furnished equipment and supervision as its share of the cooperation.

Classification of transit traverse.—Lines of transit traverse are classified with respect to the degree of refinement in the instruments and methods used and according to the magnitude of the closure errors. The lines are run in loops or are connected at each end to triangulation or transit traverse of the same or higher order. When started from and ended upon adjusted positions, lines of transit traverse are required to close within the limitations prescribed by the Federal Board of Surveys and Maps,** which are as follows:

First-order,	1 part in 25,000
Second-order,	1 part in 10,000
Third-order,	1 part in 5,000
Fourth-order,	1 part in less than 5,000

Fourth-order traverse, employing the use of transit or compass for direction and paced, taped, or stadia measurements for distance, is utilized by the Geological Survey for plotting topographic detail in mapping operations only; it is not used as geodetic control, and the points determined are not marked by standard tablets.

All transit traverse run by the United States Geological Survey in Missouri is of third-order accuracy unless otherwise stated.

*Formerly designated primary traverse.

**See "Specifications for horizontal and vertical control," approved by the Board May 9, 1933.

Adjustments*.—The computing of traverse begins with an adjustment of the azimuths of courses, as first determined through the measured angles between them, so that they will be consistent with the azimuths obtained by frequent observations made upon the sun or Polaris. With azimuths thus adjusted, and with taped distances corrected for the temperature of the tape, latitudes and departures are computed; these are accumulated for sections of the traverse between marked points and are converted into differences of geodetic latitude and longitude, which are then applied successively, making it possible to carry computed positions through the line from its initial point. A line of traverse beginning at one previously established position and closing upon another usually does not fit exactly between them. The discrepancy thus developed at the end of the line is called the error of closure, and, if not excessive, it is pro-rated back through the line.

Generally, however, the circumstances of adjustment are not so simple; the lines are run in complicated nets, with many junction points that are not already fixed in position. The adjustment of any one line then depends upon the adjustment of the others in the net. Such nets of traverse lines are adjusted by a method of least squares, so that all links in the net may simultaneously exert their influence proportionately in attaining the result. The coordinates published in this bulletin, having been based upon or brought into agreement with the best information available for the fundamental triangulation and higher orders of transit traverse, are likely to be changed only slightly by future adjustments.

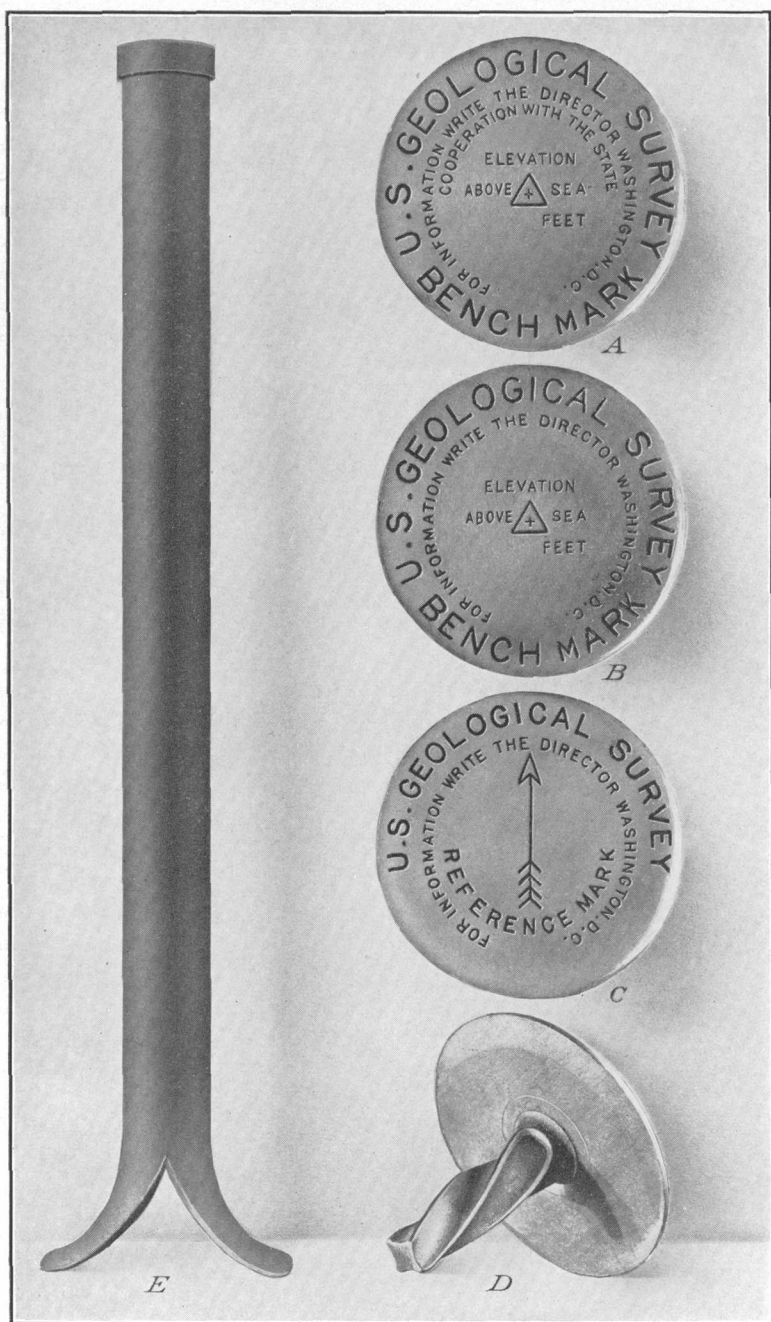
For some of the topographic mapping in Missouri, lines of transit traverse run by the Interstate Commerce Commission for railroad evaluation surveys were used as auxiliary control. In adapting the surveys to this purpose, for which they were not primarily intended, it was necessary to connect independent sections, to tie them to established geodetic positions, and to observe true azimuths at intervals along their routes, in order that transcriptions from the field notes could be recomputed to yield the geodetic positions required.

While the original surveys were undoubtedly well done, the complications involved in the recovery of stations and in recomputations introduced minor inconsistencies which often resulted in excessive closure errors. It is recommended, therefore, that the positions of points in these lines as published in this bulletin be used with caution, particularly where a footnote indicates that an excessive closure was found.

Station marks.—The station marks used by the United States Geological Survey (pl.1) consist of iron posts and bronze or aluminum tablets of the same form and design as those used as principal benchmarks along lines of leveling. They are placed at intervals of about three miles at sites selected for accessibility and permanence.

The tablets are circular in shape, measure $3\frac{7}{8}$ 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. During a short period in the years of the earlier surveys the tablets used were made of aluminum. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for tablets was soon discarded. The earliest tablets were made of bronze, and bronze is the material now specified for standard tablets. Each tablet is cast with a $\frac{3}{4}$ -inch shank extending from the center of its reverse side, by means of which it is cemented in place, and each bears an inscription on its face. The inscriptions on the tablets already placed differ in many

*See Birdseye, C. H., Topographic instructions of the United States Geological Survey: U. S. Geol. Survey Bull. 786, pp. 112-116, 1918.



STANDARD GEOLOGICAL SURVEY STATION MARKS AND BENCH MARKS.

A and *B*, Standard tablets used for triangulation, transit traverse, and leveling where rock or masonry is available to hold them. *A* is used in cooperating States. *C*, Standard reference tablet used in triangulation; the arrow points to the station to which this mark refers. *D*, Under side of *A*, *B*, and *C* showing twisted shank, which holds tablet in place. *E*, Standard iron post fitted with bronze cap bearing an inscription similar to that on a standard tablet, formerly used in transit traverse and leveling where no rock was available; superseded by concrete post with tablet set in top.

details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U. S. Geological Survey," a cross at the center which indicates the fiducial point for position or elevation, and the words "Elevation above sea." 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 the cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as traverse- or triangulation-station marks but also as benchmarks. The inscription on most of the tablets already set 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 the tablet is to mark a transit-traverse station, the traverseman stamps it with 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, using steel dies. If the tablet is set as a benchmark, the levelman stamps it with his identifying letter or letters, the serial number, and the year. He may at the same time stamp upon it with steel dies the figures of elevation to the nearest foot, or these figures may be added later. Tablets that serve as station marks may have been set as such or they may have been originally established as benchmarks. Thus some of them serve a dual purpose, but each has stamped upon it the date and the identifying designation of only the engineer who established it.

The figures of elevation that appear on a tablet are usually 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. In June 1938 a field party was organized and charged with the responsibility of stamping figures of elevation, to the nearest foot, on the permanent benchmarks established in the State by the Geological Survey. Thus, these figures may appear stamped on the tablets in addition to the identifying letters and numbers quoted in the printed descriptions. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in Bulletin 898, instead of accepting the stamped figures. If the appropriate part of the bulletin is not conveniently accessible, a request for the desired information may be addressed to the Director, Geological Survey, United States Department of the Interior, Washington, D. C.

The tablets, of whatever style, are cemented into holes drilled in solid rocks or in the walls of public buildings, bridge abutments, or other masonry structures. Where masonry or rock is not available, the tablets are set in the tops of reinforced concrete posts, 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 vary in length from 36 to 48 inches and are generally set so as to project about 6 inches above ground.

Antedating the concrete posts which are now constructed to hold the tablets, in places where masonry or rock is not available, are wrought-iron posts, to the tops of which are riveted bronze caps of similar design to the tablets. These iron posts measure 4 feet in length and $3\frac{1}{2}$ 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. No iron posts have been set in recent years. They have proved impracticable, as they are easily disturbed or are often destroyed by rust at the ground level.

Azimuth marks and supplemental points.—When practicable two or more reference points have been observed in the immediate vicinity of each station mark from which azimuths may be found for future use. Such points as church steeples, windmills, water tanks, or copper nails within triangles blazed on large trees have been utilized for this purpose.

Geodetic coordinates have also been determined for road or highway junctions and intersections, railroad stations and crossings, mileposts, and stream crossings.

Preservation and restoration of station marks.—Any person who finds that a station 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 position.

Datum.—Horizontal control surveys for the earlier topographic maps made by the United States Geological Survey were expanded as local projects by small arcs of triangulation based upon regional astronomic stations* purposely established to meet such needs.

Later, additional arcs were expanded from locally adjusted positions referred to the astronomic datums of these original projects. This process eventually led to difficulty when the triangulation based on the datum of one region was connected to that based on the datum of another region. It was then found that the closing arc was forced to receive excessive corrections.

Eventually the arcs of first- and second-order triangulation were extended throughout the country so as to form a comprehensive net of such extent and strength that when adjusted it provided one consistent general datum. Using this framework, it was then possible to readjust the earlier local projects on a more uniform and rigid basis. The adjustment of the first-order net as a whole included and represented the averaged results of all available astronomic observations.

Geodetic coordinates resulting from and affected by this adjustment of the first- and second-order triangulation were distinguished from the coordinates accepted as the result of previous adjustments by being referred to the "U. S. standard datum." Subsequently, arcs of triangulation in Canada and in Mexico were adjusted to agree with the net in the United States, and the designation U. S. standard datum was changed to North American datum. For stations in the United States no corrections to coordinates were made as a result of the change in the designation.

*See Woodward, R. S., Latitudes and longitudes of certain points in Missouri, Kansas, and New Mexico: U. S. Geol. Survey Bull. 49, p. 10, 1889. See also Triangulation and spirit leveling—Missouri: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 143-144, 1897.

In 1927 the United States Coast and Geodetic Survey began a complete readjustment of the entire first-order triangulation net, which by that time contained a great many arcs of triangulation that were done after the first general adjustment was completed. The readjustment changed the coordinates of triangulation stations throughout the country. The new datum resulting from this change is referred to as the "North American datum of 1927."

Transit traverse was first used by the United States Geological Survey in 1889 to provide control for a mapping project in northern Missouri. It was adopted as a method of establishing horizontal control to supplant triangulation in wooded or cultivated regions in which the scant relief in topography rendered the continuation of triangulation for mapping requirements slow, costly, and deficient in the number and distribution of stations and useful supplemental points. The regulations of the United States Geological Survey at that time specified that the traverse lines be started and ended either at an astronomic station or at a triangulation station. Thus the changes in datum made in the triangulation net have necessitated corresponding changes in the transit traverse net.

The published results of transit traverse done by the United States Geological Survey contain coordinates referring to one or another of the datums described here, according to the date of the computation or publication. Many of the earlier lines were corrected from their original astronomic datums to the U. S. standard datum soon after the basic coordinates referred to the latter became available. Recently much work has been done to make the coordinates of all transit-traverse stations and supplemental points refer to the North American datum of 1927, but the correction of the records probably will not approach completion for a number of years. The latitude and longitude of all triangulation- and transit-traverse stations, reference marks, and supplemental points in Missouri published in this bulletin are referred to North American datum of 1927.

Location of the area.—Northeastern Missouri, as the term is used in this bulletin and as the subject of part 6 of the bulletin, is, as its name indicates, the northeasternmost section of the State. Its north and east boundaries are the boundaries of the State; its west and south boundaries are formed by a line that runs south along longitude $93^{\circ}15'$ to latitude $39^{\circ}30'$, thence east to longitude $92^{\circ}00'$, thence south to latitude $39^{\circ}15'$, thence east to the east boundary of the State. (See fig. 11.)

Index map.—The accompanying index map of northeastern Missouri (fig. 12) shows the relative position of the quadrangle areas which make up this section. A quadrangle is the unit of topographic survey adopted by the United States Geological Survey for dividing the area of the United States. All the quadrangles in northeastern Missouri measure 15 minutes in latitude by 15 minutes in longitude.

Maps of many of the quadrangles in northeastern Missouri 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, Geological Survey, United States Department of the Interior, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent.

Diagrams of quadrangles showing routes of transit traverse.—At the beginning of the list of descriptions and positions of stations for each quadrangle is a diagram showing the routes followed by the lines of transit traverse in and immediately adjacent to that quadrangle. To aid in identifying these routes, the boundaries of the townships

and ranges in the quadrangle are indicated by light dashed lines, and the designations of these land subdivisions are given on the margin. The principal settlements are also shown. The solid lines represent the routes of transit traverse of the United States Geological Survey. To each of these is assigned a number, and the same number is assigned to the list of descriptions and positions of stations along that route.

Personnel.—The transit traverse of the United States Geological Survey in north-eastern Missouri 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. Included in the heading that precedes the descriptions and positions of stations established along any line of transit traverse are the name of the traverseman who ran that line and the date when it was run.

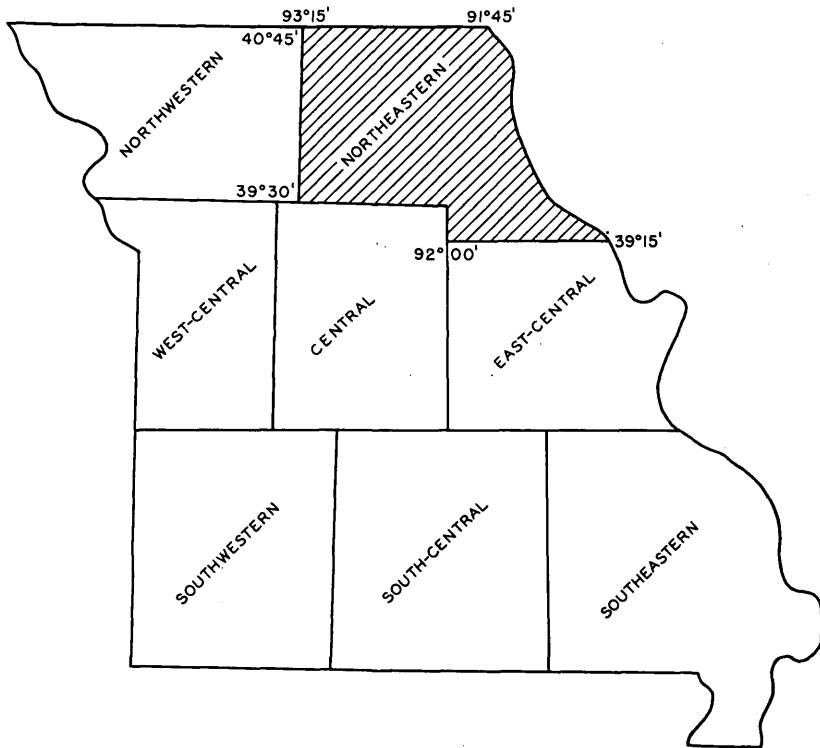


Figure 11.—Outline map of Missouri showing the names and relative position of the eight sections covered by the parts of Bulletin 916, on transit traverse in the State. The shaded portion represents the section designated as northeastern Missouri.

If this information has been omitted, it may be assumed that the traverseman and the date are the same as those indicated for the line immediately preceding. The adjustment of the transit-traverse net was done partly by J. R. Ellis, associate geodetic engineer, assisted by P. W. Goin, junior engineer, in the Washington office and partly by engineers in the field office at Rolla, Mo. The revision, correlation, and compilation of the descriptions and positions of stations was done at Rolla by employees of the Works Progress Administration of Missouri, who also assembled the lists and made new typewritten copies of them suitable for reproduction by photography. The work at Rolla was sponsored by the Missouri Geological Survey and Water Resources and was in charge

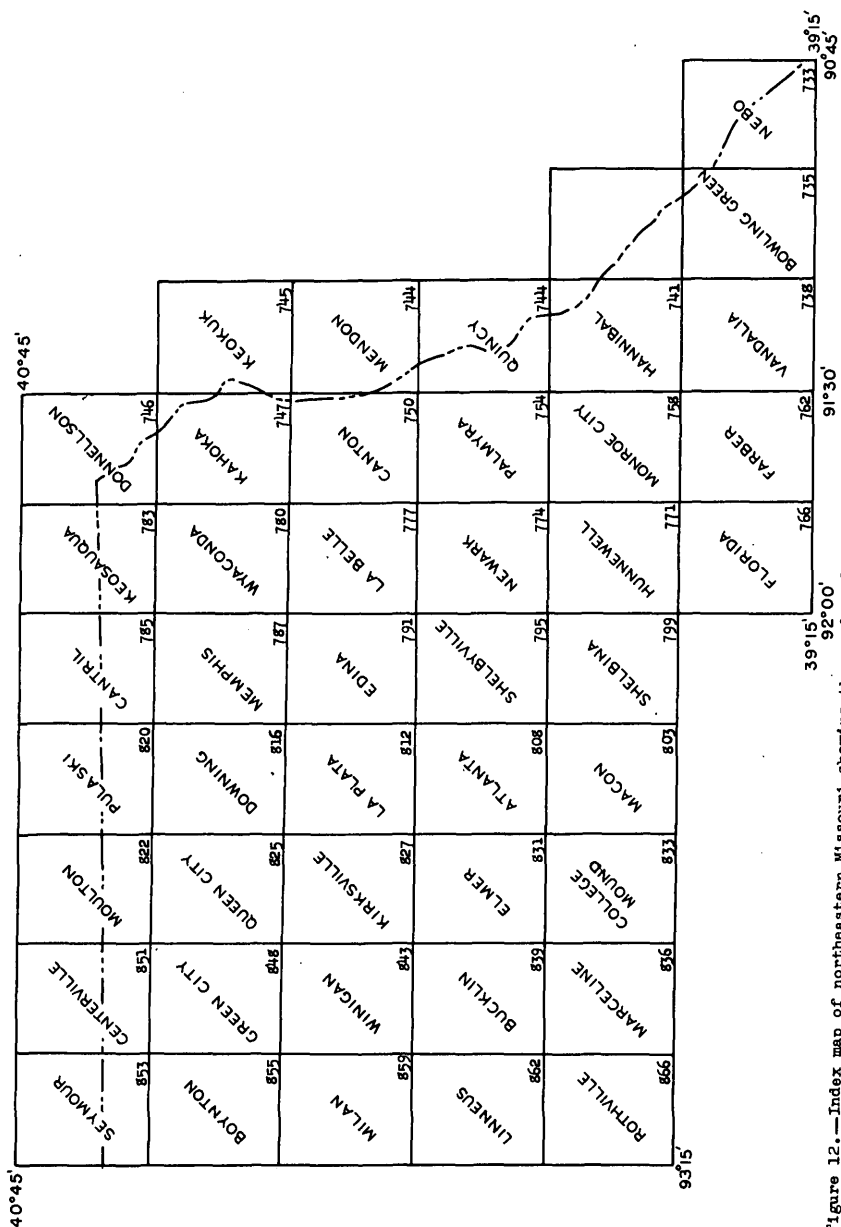


Figure 12.—Index map of northeastern Missouri showing the quadrangles into which this section of the State has been divided. The number in a quadrangle is that of the page of this bulletin on which the list of positions in that quadrangle begins. No transit traverse has been done by the United States Geological Survey in the quadrangle in which no name appears.

of W. R. Broadus, of the United States Geological Survey. The work in the Washington office was under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.

Explanation of tabulation of geodetic positions.—In the text that follows, the description of each station or supplemental point is followed by its geodetic coordinates and the straight-line diagonal distance in feet between it and the preceding station or supplemental point. The latitude and longitude of each standard station mark is given, with few exceptions, to hundredths of seconds, and the coordinates for supplemental points such as crossroads and mileposts are given to tenths of seconds.

For obvious reasons no distance to a preceding station is given with the coordinates for the actual starting point of a traverse line. However, if an entry in the distance column appears in parentheses at the beginning of a line, it indicates that the traverse is continuous, but that the preceding station is in an adjoining quadrangle and its description and coordinates may be found in the appropriate list. No descriptions are repeated. Stations at traverse junctions are fully described in the line in which they first appear and are thereafter referred to by their designation followed by the parenthetical phrase "(previously described)." The coordinates of the closing station of a traverse are repeated, and the last diagonal distance is indicated.

TRANSIT TRAVERSE IN MISSOURI PREVIOUSLY PUBLISHED

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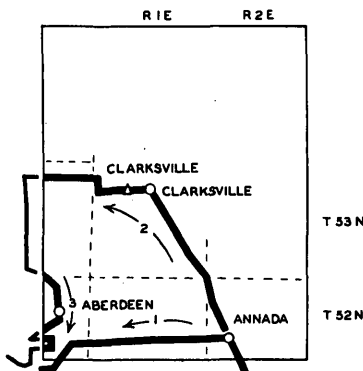
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Kendall, C. B., traverse by	816-817, 822-823, 825-826, 827-828, 843-844, 848-850, 851, 855-856	Moulton quadrangle	822-824
Kennedy, W. V., traverse by	741-742, 758-759, 763-764, 768-769, 771-772, 800-801, 805	Mount Olive Church	785
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Keosauqua quadrangle	783-785	Mount Zion Church	743
Kinkade triangulation sta.	782	Moyers, S. H., traverse by	762-763, 766-768, 771, 800
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Kirkville quadrangle	827-830	Myers triangulation sta.	827
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Laddonia	763	Newark	774, 775
La Grange	744-745, 751, 755	Newark quadrangle	774-777
Lakenan	773	Nichols triangulation sta.	815
Lancaster	820, 821, 822, 823, 824	Noel triangulation sta.	801
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Leonard	797	Oak Grove Church	800
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Lick Creek	763	Otter Creek	772
Lingo	840	Overstreet, C. L., traverse by	754-755, 774-775, 813, 817
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TRANSIT TRAVERSE

NEBO QUADRANGLE *
(Latitude 39°15'-39°30'; longitude 90°45'-91°00')

Pike County



1. FROM ELSBERRY QUADRANGLE NORTH ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO ANNADA, THENCE WEST ALONG ROADS INTO ELSBERRY QUADRANGLE AT SEC. 27, T. 52 N., R. 1 W. (by C. R. Fisher in 1928)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Center of bridge over creek (in Elsberry quadrangle)**	39 14 36.3	90 48 51.8	.....
Annada, about 0.6 mi. SE. of, near SE. cor. sec. 19, T. 52 N., R. 2 E., 30 ft. S. and 25 ft. W. from steel bridge, 2 ft. E. of telephone pole, in concrete post; standard tablet stamped "T T Sta No 3 L J 1928"	39 15 13.81	90 49 13.15	4,152
R.R. at rd. crossing about 300 ft. S. of Annada sta.	39 15 40.7	90 49 34.9	3,219
T-rd. W.	39 15 41.3	90 50 15.4	3,186
Annada, 1.5 mi. W. of, 25 ft. S. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T Sta No 28 F 1928"	39 15 40.20	90 51 25.38	5,503
T-rd. W.	39 15 40.5	90 51 58.6	2,615
Rd. at fences N. and S.	39 15 41.4	90 52 32.2	2,640
T. 52 N., R. 1 E., quarter cor. between secs. 21 and 22, rd. at fence S.	39 15 42.1	90 53 41.0	5,419
Paynesville, main crossroads at	39 15 44.7	90 54 00.5	1,552
Paynesville, at W. limits of, near center sec. 21, T. 52 N., R. 1 E., 30 ft. S. and 15 ft. E. from junction of rd. to church, in concrete post; standard tablet stamped "T T 29 F 1928"	39 15 42.00	90 54 20.01	1,561
T. 52 N., R. 1 E., quarter cor. between secs. 20 and 21, rd. at fence S.	39 15 42.4	90 54 50.6	2,404
T-rd. N.	39 15 43.1	90 55 24.6	2,675
T-rd. N.	39 15 43.9	90 56 22.1	4,528
Junction of private rd. S.	39 15 40.4	90 56 57.3	2,792
Eolia, 1.8 mi. N. and 2.3 mi. E. from, 30 ft. S. and 20 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T Sta No 30 F 1928"	39 15 29.55	90 57 39.62	3,505
Junction of lane S. to dwelling	39 15 29.5	90 57 51.6	939
Ford across creek	39 15 28.1	90 58 23.9	2,552
Rd. at fence S.	39 15 20.6	90 58 47.6	2,011
T-rd. N.	39 15 19.2	90 59 16.7	2,292
Rd. at fences N. and S.	39 15 10.9	90 59 41.6	2,136
T T Sta No 31 F 1928 (Described in Bowling Green quadrangle; see line 1.)	39 14 44.85	91 00 28.33	4,522

2. FROM ANNADA NORTHWEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO CLARKSVILLE, THENCE WEST ALONG ROADS INTO BOWLING GREEN QUADRANGLE AT SEC. 10, T. 53 N., R. 1 W. (by C. R. Fisher in 1928)

R.R. at rd. crossing (previously described)	39 15 40.7	90 49 34.9	.....
R.R. at milepost 76	39 16 12.7	90 50 01.5	3,841
R.R. at milepost 77	39 16 56.3	90 50 37.8	5,260
Kissinger, about 1 mi. SE. of, 60 ft. S. and 30 ft. W. from bridge, 35 ft. W. of rd. crossing, 5 ft. E. of telegraph pole, in concrete post; standard tablet stamped "2 L J 1928" ***	39 17 25.62	90 51 02.80	3,556

*The greater part of this quadrangle lies in Illinois.

**Published in Elsberry quadrangle (see Bull. 916-C).

***In 1937 it was reported that this mark had been destroyed.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
R.R. at milepost 78 -----	39 17 40.3	90 51 14.4	1,743
Kissinger siding, R.R. at S. switch point -----	39 17 59.0	90 51 22.3	1,992
Kissinger, R.R. at sta. -----	39 18 12.9	90 51 26.1	1,440
Kissinger siding, R.R. at N. switch point -----	39 18 38.8	90 51 33.0	2,670
Clarksville, 2.7 mi. S. of, 10 ft. N. and 50 ft. W. from crossing of private rd., 5 ft. N. of gatepost, 25 ft. N. of T-fence W., in concrete post; standard tablet stamped "1 L J 1928" -----	39 19 39.39	90 52 48.11	8,511
Center of bridge -----	39 19 54.9	90 52 58.2	1,758
R.R. at rd. crossing -----	39 20 20.5	90 53 16.0	2,935
Center of bridge -----	39 20 32.1	90 53 23.7	1,330
R.R. at rd. crossing -----	39 20 59.2	90 53 30.8	2,798
R.R. at milepost 83 -----	39 21 13.9	90 53 33.3	1,504
Clarksville, switch stand at S. end of siding -----	39 21 41.9	90 53 52.0	3,190
Clarksville, at S. limits of, 20 ft. S. and 10 ft. W. from W. track at rd. crossing, 2 ft. S. of NE. corner of stockyard fence, in concrete post; standard tablet stamped "9 L J 1928" -----	39 21 53.14	90 53 59.05	1,260
Clarksville triangulation sta.; M.R.C. granite post* -----	39 22 24.16	90 54 35.84	4,265
R.R. at milepost 85 -----	39 22 36.9	90 54 56.2	2,052
Calumet Creek, center of bridge over -----	39 22 32.7	90 55 26.8	2,444
T-rd. W. -----	39 22 20.9	90 56 07.0	3,373
T. 53 N., Rs. 1 E. and 1 W., approximate cor. secs. 7, 12, 13, and 18 -----	39 22 22.5	90 56 58.8	4,070
Junction of private rd. S. -----	39 22 33.2	90 57 17.7	1,842
Rd. at top of ridge -----	39 22 50.3	90 58 05.0	4,097
Calumet Church, about 3.2 mi. W. of Clarksville, center sec. 11, T. 53 N., R. 1 W., 40 ft. S. and 30 ft. E. from T-rd. E. at NE. corner of fence around church, in concrete post; standard tablet stamped "T T Sta No 39 F 1928" -----	39 22 45.23	90 58 41.40	2,905
T. 53 N., R. 1 W., quarter cor. between secs. 11 and 14, T-rd. N. -----	39 22 19.2	90 58 41.4	2,635
T. 53 N., R. 1 W., cor. secs. 10, 11, 14, and 15, rd. at fences N. and S. -----	39 22 19.1	90 59 15.1	2,650
Little Calumet Creek, center of bridge over -----	39 22 19.6	90 59 52.1	2,910

(Continued in Bowling Green quadrangle; see line 1.)

3. FROM BOWLING GREEN QUADRANGLE AT POINT ABOUT 1.5 MILES NORTHWEST OF ABERDEEN SOUTH INTO BOWLING GREEN QUADRANGLE AT POINT ABOUT 1.5 MILES SOUTHWEST OF ABERDEEN (by C. R. Fisher in 1928)

(Continued from Bowling Green quadrangle; see line 1.)

Center of bridge over creek -----	39 17 55.0	90 59 49.7	(4,565)
Junction of lane E. -----	39 17 43.4	90 59 53.3	1,211
Aberdeen, 30 ft. N. and 40 ft. W. from crossroads, 3 ft. NW. of fence corner, in concrete post; standard tablet stamped "T T Sta No 42 F 1928" -----	39 17 00.94	90 59 44.03	4,353
Center of bridge -----	39 16 20.8	90 59 59.5	4,238

(For balance in Bowling Green quadrangle, see line 1.)

Center of bridge -----	39 15 45.2	90 59 58.7	(2,625)
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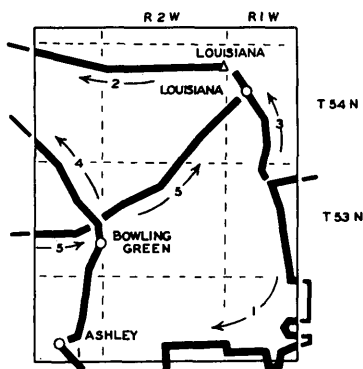
(Continued in Bowling Green quadrangle; see line 1.)

Magnetic declination in 1934, 5° E.

*Mississippi River Commission.

BOWLING GREEN QUADRANGLE *
(Latitude 39°15'-39°30'; longitude 91°00'-91°15')

Pike County



1. FROM NEBO QUADRANGLE AT SEC. 10, T. 53 N., R. 1 W., SOUTH TO EOLIA,
THENCE WEST TO ASHLEY (by C. R. Fisher in 1928)**
(Continued from Nebo quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 53 N., R. 1 W., cor. secs. 9, 10, 15, and 16, T-rd. N. -----	39 22 19.7	91 00 23.0	(2,427)
Louisiana, 5 mi. S. and 1 mi. E. from, in NW 1/4 sec. 16, T. 53 N., R. 1 W., 80 ft. S. and 40 ft. E. from E. end of rd. forks, 10 ft. S. and 50 ft. E. from gate, at entrance to large brick dwelling, in concrete post; standard tablet stamped "T T Sta No 40 F 1928" -----	39 22 19.02	91 01 14.70	4,060
Center of bridge -----	39 21 54.4	91 01 13.2	2,489
Crossroads on line between secs. 16 and 21, T. 53 N., R. 1 W. -----	39 21 27.0	91 01 04.0	2,870
T-rd. W. -----	39 21 00.6	91 00 58.3	2,704
T-rd. W. -----	39 20 08.1	91 00 57.9	5,314
Calumet, 550 ft. S. of T-rd. E., at store, 1 ft. S. and 10 ft. W. from fence corner near church, in concrete post; standard tablet stamped "T T Sta No 41 F 1928" -----	39 19 33.12	91 00 42.19	3,751
T-rd. SW. -----	39 19 13.0	91 00 29.0	2,283
Crossroads -----	39 18 37.3	91 00 09.9	3,905
(For balance in Nebo quadrangle, see line 3.)			
Rd. at fence W. -----	39 16 11.1	91 00 00.7	(985)
(For balance in Nebo quadrangle, see line 3.)			
Center of bridge over creek -----	39 15 16.4	91 00 36.3	(4,147)
Eolia, at N. limits of, 20 ft. S. and 30 ft. E. from Eolia-Stark Nursery rd. at junction of rd. E. to cemetery, in concrete post; standard tablet stamped "T T Sta No 31 F 1928" (in Silex quadrangle) -----	39 14 44.85	91 00 28.33	3,251
Rd. fork E. (in Silex quadrangle) -----	39 14 44.4	91 01 19.1	3,993
T-rd. W. -----	39 15 01.8	91 02 05.1	4,027
Rd. fork S. -----	39 15 40.3	91 04 10.2	10,590
Edgewood, 0.5 mi. S. of, 2.1 mi. SE. of Cyrene, along U.S. Highway 61, 42 ft. N. and 48 ft. E. from crossroad, in concrete post; standard tablet stamped "T T Sta No 54 F 1928" -----	39 15 57.81	91 04 37.08	2,746
T-rd. E. -----	39 15 43.3	91 05 28.4	4,165
Center of ford across creek -----	39 15 48.1	91 06 22.4	4,429
T. 52 N., R. 2 W., near center sec. 21, 20 ft. S. and 25 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T Sta No 55 F 1928" -----	39 15 47.65	91 07 48.51	6,776
T. 52 N., R. 2 W., quarter cor. between secs. 21 and 26, rd. at fence W. -----	39 15 21.8	91 07 49.1	2,621
T. 52 N., R. 2 W., quarter cor. between secs. 28 and 33, crossroads (in Silex quadrangle) -----	39 14 28.5	91 07 50.6	5,393
Center of small bridge (in Silex quadrangle) -----	39 14 29.7	91 12 29.9	.....
Ashley, at E. limits of, 30 ft. N. and 15 ft. W. from cross streets, 2 ft. E. of SE. corner of fence, in concrete post; standard tablet stamped "T T Sta No 57 F 1928" -----	39 15 07.94	91 13 16.53	5,331

*A small part of this quadrangle lies in Illinois.

**Line 4 of Silex quadrangle includes a portion of this line (see Bull. 916-C).

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet

2. FROM POINT ABOUT 1.5 MILES NORTHWEST OF LOUISIANA WEST ALONG COUNTY ROUTE T TO SEC. 7, T. 54 N., R. 2 W., THENCE WEST ALONG ROADS INTO VANDALIA QUADRANGLE AT SEC. 4, T. 54 N., R. 3 W. (by C. E. Wyrick in 1935)

Louisiana triangulation sta.; U.S.C. & G.S.			
standard disk stamped "Louisiana" -----	39 27 47.79	91 04 17.87	.....
Junction of farm entrance -----	39 27 59.9	91 04 57.2	3,321
Center of bridge over creek -----	39 28 07.1	91 05 13.2	1,444
Louisiana, 3 mi. NW. of, in NE 1/4 sec. 10, T. 54 N., R. 2 W., 35 ft. N. and 50 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1833 E R A 1935" -----	39 28 13.04	91 06 15.10	4,894
T. 54 N., R. 2 W., quarter cor. between secs. 9 and 10, highway at fence N. -----	39 28 06.1	91 07 07.0	4,133
T. 54 N., R. 2 W., center sec. 9, junction of rd. S. -----	39 28 05.3	91 07 40.1	2,590
T. 54 N., R. 2 W., quarter cor. between secs. 8 and 9, highway at fences N. and S. -----	39 28 03.7	91 06 12.9	2,583
Fairview Church, quarter cor. between secs. 7 and 8, T. 54 N., R. 2 W., 55 ft. N. of junction of rd. S., 3/4 ft. SW. of church, in yard, in concrete post; standard tablet stamped "1834 E R A 1935" -----	39 28 05.77	91 09 19.47	5,221
Rd. at fences N. and S. -----	39 27 58.2	91 10 36.4	6,083
Crossroads -----	39 27 58.1	91 11 19.8	3,402
Rd. forks -----	39 26 06.8	91 11 49.8	2,511
Rd. fork NW. -----	39 26 18.7	91 12 22.4	2,819
Sugar Creek Church, in NW 1/4 sec. 11, T. 54 N., R. 3 W., 100 ft. N. of rd., 2 ft. W. of W. end of concrete steps of church, in concrete post; standard tablet stamped "1835 E R A 1935" -----	39 28 16.48	91 12 46.95	1,941
T-rd. S. -----	39 28 13.1	91 13 19.0	2,539
Rd. at fences N. and S. -----	39 28 20.2	91 14 07.7	3,883
T-rd. N. -----	39 28 34.3	91 14 32.6	2,415

(Continued in Vandalia quadrangle; see line 2.)

3. FROM SEC. 16, T. 53 N., R. 1 W., NORTH ALONG COUNTY ROUTE D TO LOUISIANA, THENCE NORTHWEST ABOUT 1.5 MILES ALONG COUNTY ROUTE T (by C. E. Wyrick in 1935)

T T Sta No 40 F 1928 (previously described) -----	39 22 19.02	91 01 14.70	.....
Junction of rd. W. -----	39 22 46.3	91 01 48.8	3,845
Highway at fences E. and W. -----	39 23 12.6	91 01 46.7	2,670
Center of bridge over creek -----	39 24 05.3	91 01 59.5	5,420
Louisiana, 2.5 mi. S. of, 50 ft. S. and 30 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "1832 E R A 1935" -----	39 24 36.89	91 02 02.48	3,410
Highway at fences E. and W. -----	39 25 13.3	91 02 02.4	3,480
Highway at fences E. and W. -----	39 25 45.5	91 01 59.0	3,266
Chicago, Burlington & Quincy R.R. at highway crossing -----	39 26 34.2	91 02 14.6	5,075
U.S.C. & G.S. standard disk stamped "B 137 1935" -----	39 26 55.22	91 02 58.76	4,066
Louisiana, intersection of Seventh Street -----	39 27 17.5	91 03 23.1	2,949
Junction of rd. W. -----	39 27 28.7	91 03 54.7	2,732
Louisiana triangulation sta. (previously described) -----	39 27 47.79	91 04 17.87	2,646

4. FROM ASHLEY NORTH ALONG STATE HIGHWAY 29 TO BOWLING GREEN, THENCE NORTHWEST ALONG U.S. HIGHWAY 61 INTO VANDALIA QUADRANGLE (by C. D. Craig in 1935)

T T Sta No 57 F 1928 (previously described) -----	39 15 07.94	91 13 16.53	.....
Junction of rd. NW. to county farm -----	39 15 31.9	91 12 53.3	3,032
Highway at fence NW. -----	39 16 18.3	91 12 43.0	4,772
St. Clement Church spire -----	39 16 54.9	91 12 33.1	3,780
St. Clement, 0.4 mi. N. of, 43 ft. N. and 20 ft. W. from junction of rd. W., 26 ft. N. and 6 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 23 C 1935" -----	39 17 24.70	91 12 27.46	3,050
Junction of rd. E. -----	39 17 36.0	91 12 19.6	1,482
Highway at fences E. and W. -----	39 18 04.4	91 12 15.9	2,685
Junction of lane W. at fence E. -----	39 18 30.6	91 12 15.6	2,652
Junction of rd. W. -----	39 18 55.1	91 12 03.6	2,662
Junction of rd. E., 20 ft. S. of highway at fences E. and W. -----	39 19 21.2	91 11 57.7	2,683
Bowling Green, 1 mi. S. of, 246 ft. S. and 35 ft. E. from junction of County Route A (now State Highway 29), in concrete post; standard tablet stamped "T T 24 C 1935" -----	39 19 57.68	91 11 41.01	3,933
Crossroad -----	39 20 19.8	91 12 10.1	3,189
Bowling Green, municipal water tower -----	39 20 35.0	91 11 36.3	3,073

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Bowling Green, 1.2 mi. NW. of, 80 ft. N. and 30 ft. E. from intersection of U.S. Highway 54, in concrete post; standard tablet stamped "T T 25 C 1935" -----	39 20 57.62	91 12 26.30	4,552
Crossroad -----	39 21 31.5	91 12 45.9	3,757
Crossroad -----	39 22 13.2	91 12 55.0	4,276
Highway at fences E. and W., 115 ft. E. of fence corner at cor. secs. 10, 11, 14, and 15, T. 53 N., R. 3 W. -----	39 22 24.2	91 13 03.0	1,286
Highway at fences E. and W. -----	39 22 50.4	91 13 21.9	3,033
Bowling Green, 4.4 mi. NW. of, 109 ft. E. of highway, 2 ft. N. and 124 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 26 C 1935" -----	39 23 29.87	91 13 53.13	4,689
Highway at fence N. -----	39 23 43.4	91 14 24.7	2,832
Highway at fences E. and W. on line between secs. 4 and 33, Tps. 53 and 54 N., R. 3 W. -----	39 24 11.3	91 14 39.5	3,053
Highway at fences E. and W. -----	39 24 26.9	91 14 52.3	1,875

(Continued in Vandalia quadrangle; see line 4.)

5. FROM VANDALIA QUADRANGLE EAST ALONG ALTON RAILROAD AND U.S. HIGHWAY 54 TO BOWLING GREEN, THENCE NORTHEAST ALONG ALTON RAILROAD TO LOUISIANA (by C. D. Craig in 1935)

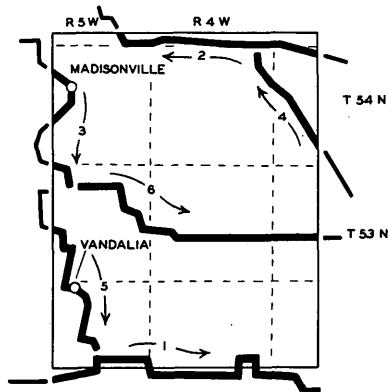
(Continued from Vandalia quadrangle; see line 6.)

R.R. at private rd. crossing -----	39 20 32.3	91 14 47.1	(2,634)
U.S.C. & G.S. standard disk stamped "N 137 1935" -----	39 20 31.67	91 14 15.62	2,654
T. 53 N., R. 3 W., cor. secs. 21, 22, 27, and 28, highway at crossroad -----	39 20 39.4	91 14 13.4	786
T. 53 N., R. 3 W., cor. secs. 22, 23, 26, and 27, 15 ft. S. of highway at rd. N. -----	39 20 39.6	91 13 05.0	5,368
U.S.C. & G.S. standard disk stamped "M 137 1935" -----	39 20 40.80	91 12 35.30	2,339
T T 25 C 1935 (previously described) -----	39 20 57.62	91 12 26.30	1,843
U.S.C. & G.S. standard disk stamped "L 137 1935" -----	39 21 01.57	91 11 42.44	3,469
R.R. at fence E. -----	39 21 19.0	91 11 34.8	1,860
U.S.C. & G.S. standard disk stamped "K 137 1935" -----	39 21 40.41	91 10 48.00	4,272
Stone at rd. corner from E.-N., 275 ft. S. of rd. corner from S.-W. -----	39 21 57.9	91 10 48.6	1,775
R.R. at fences N. and S. -----	39 22 07.8	91 09 59.7	3,964
T. 53 N., R. 2 W., cor. secs. 7, 6, 17, and 18, fence corner -----	39 22 23.6	91 09 25.7	3,115
U.S.C. & G.S. standard disk stamped "J 137 1935" -----	39 22 41.82	91 08 40.50	4,000
R.R. at private rd. crossing -----	39 23 00.0	91 07 42.6	4,908
R.R. at rd. crossing -----	39 23 05.8	91 07 27.5	1,318
U.S.C. & G.S. standard disk stamped "H 137 1935" -----	39 23 34.54	91 06 50.48	4,115
T. 54 N., R. 2 W., W. sixteenth cor. on S. line sec. 34, hedge-fence corner -----	39 24 08.2	91 06 50.6	3,409
R.R. at rd. crossing -----	39 24 33.0	91 06 10.0	4,056
U.S.C. & G.S. standard disk stamped "O 137 1935" -----	39 25 00.37	91 05 33.90	3,961
Fence corner near center sec. 26, T. 54 N., R. 2 W. -----	39 25 24.5	91 05 26.3	2,511
R.R. at fences N. and S. -----	39 25 14.3	91 05 09.5	1,678
R.R. at rd. crossing near offices of Stark Nurseries -----	39 25 34.1	91 04 35.7	3,322
U.S.C. & G.S. standard disk stamped "F 137 1935" -----	39 26 06.38	91 03 56.58	4,483
R.R. at fences N. and S. -----	39 26 26.3	91 03 30.2	2,887
R.R. at rd. crossing -----	39 26 37.9	91 03 03.1	2,432
B 137 1935 (previously described) -----	39 26 55.22	91 02 56.76	1,782

Magnetic declination 5° 23' E.

VANDALIA QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°15'-91°30')

Audrain, Pike, and Ralls Counties



1. FROM WELLSVILLE QUADRANGLE AT SEC. 32, T. 52 N., R. 5 W., EAST INTO
SILEX QUADRANGLE AT SEC. 32, T. 52 N., R. 3 W., INCLUDING THAT PART
OF THE LINE IN BELLFLOWER QUADRANGLE (by C. R. Fisher in 1928)*
(Continued from Farber quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 52 N., R. 5 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 14 48.8	91 28 54.3	(5,265)
T. 52 N., R. 5 W., cor. secs. 27, 28, 33, and 34, crossroads -----	39 14 46.9	91 27 46.5	5,330
Estes, 1 mi. N. and 4.5 mi. W. from, near quarter cor. between secs. 27 and 28, T. 52 N., R. 5 W., 25 ft. W. of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 64 F 1928"-----	39 15 13.34	91 27 46.18	2,671
T. 52 N., R. 5 W., quarter cor. between secs. 26 and 27, rd. at fences N. and S. -----	39 15 11.2	91 26 38.2	5,355
Crossroads -----	39 15 10.3	91 26 04.3	2,664
Shady Branch, center of bridge over -----	39 15 08.4	91 25 14.7	3,905
Estes, 1 mi. N. and 1.5 mi. W. from, approximate quarter cor. between secs. 25 and 30, T. 52 N., Rs. 4 and 5 W., 75 ft. S. and 20 ft. E. from crossroads, in concrete post; tablet stamped "T T Sta No 65 F 1928"-----	39 15 06.06	91 24 22.46	4,117
T. 52 N., Rs. 4 and 5 W., cor. secs. 25, 30, 31, and 36, stone at center of crossroads -----	39 14 40.0	91 24 23.3	2,642
T-rd. E. -----	39 14 27.2	91 24 23.6	1,290
T-rd. W. -----	39 14 25.9	91 23 07.4	6,000
T-rd. S. -----	39 14 13.3	91 21 42.9	6,763
Estes, 1 mi. E. of, near center sec. 33, T. 52 N., R. 4 W., 20 ft. N. of T-rd. N., 3 ft. W. of SE. corner of yard fence, in concrete post; standard tablet stamped "T T Sta No 66 F 1928"-----	39 14 15.51	91 21 26.96	1,275
Crossroads -----	39 14 19.2	91 20 51.2	2,833
Rd. forks S. -----	39 14 29.9	91 20 00.3	4,152
Indian Creek, center of bridge over -----	39 14 42.3	91 19 35.0	2,359
T-rd. N. -----	39 15 00.3	91 19 07.6	2,822
Farmer, 0.5 mi. S. of, quarter cor. between secs. 25 and 26, T. 52 N., R. 4 W., 20 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 67 F 1928"-----	39 14 59.79	91 18 33.61	2,675
T-rd. E. -----	39 14 46.3	91 18 00.6	2,935
Farmer, 1 mi. S. and 1.8 mi. E. from, cor. secs. 29, 30, 31, and 32, T. 52 N., R. 3 W., 25 ft. N. and 20 ft. E. from rd. corner from N.-E., in concrete post; standard tablet stamped "T T Sta No 68 F 1928"-----	39 14 33.71	91 16 32.13	7,073
T-rd. E. -----	39 13 56.8	91 16 16.2	3,939
Rd. corner -----	39 13 53.7	91 15 26.3	3,933
T-rd. S. (in Silex quadrangle)**-----	39 13 53.6	91 14 50.6	2,812

2. FROM BOWLING GREEN QUADRANGLE AT SEC. 4, T. 54 N., R. 3 W., WEST INTO
HANNIBAL QUADRANGLE AT SEC. 34, T. 55 N., R. 5 W. (by C. E. Wyrick
in 1935)
(Continued from Bowling Green quadrangle; see line 2.)

T-rd. S. -----	39 28 43.8	91 15 31.7	(4,735)
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*Published as line 4 in Bellflower quadrangle (see Bull. 916-C).

**Published in Silex quadrangle (see Bull. 916-C).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 54 N., R. 3 W., near quarter cor. between secs. 5 and 6, 27 ft. S. and 200 ft. E. from crossroad, 80 ft. E. of NE. corner of farm- house, in concrete post; standard tablet stamped "1836 E R A 1935" -----	39 26 54.29	91 16 20.86	3,997
Rd. at fence N. -----	39 29 13.4	91 17 29.3	5,705
Center of bridge -----	39 29 17.6	91 17 44.2	1,241
Frankford, 0.5 mi. E. of, on U.S. Highway 61, in NE 1/4 sec. 2, T. 54 N., R. 4 W., 125 ft. S. and 36 ft. E. from junction of Frankford- Louisiana rd., in concrete post; standard tab- let stamped "1837 E R A 1935" -----	39 29 20.68	91 18 35.39	4,024
St. Louis & Hannibal R.R. underpass -----	39 29 26.5	91 18 59.9	2,003
T-rd. S. -----	39 29 29.4	91 20 14.7	5,868
T-rd. -----	39 29 29.6	91 20 36.7	1,725
Frankford, 1.5 mi. W. of, cor. secs. 4, 5, 32, and 33, Tps. 54 and 55 N., R. 4 W., 25 ft. N. and 200 ft. W. from T-rd. N., 10 ft. W. of entrance to farm, in concrete post; standard tablet stamped "1838 E R A 1935" -----	39 29 31.44	91 21 47.31	5,541
T-rd. N. -----	39 29 32.1	91 22 42.9	4,357
Tps. 54 and 55 N., R. 4 W., approximate cor. secs. 5, 6, 31, and 32, rd. at fences N. and S. -----	39 29 32.2	91 22 52.5	755
T-rd. N. -----	39 29 33.3	91 23 48.9	4,421
T-rd. W. -----	39 29 10.6	91 23 55.2	2,338
T-rd. S. -----	39 29 12.3	91 24 10.8	1,235
T. 54 N., R. 5 W., in NE 1/4 sec. 2, 32 ft. N., and 45 ft. E. from rd. at N. end of bridge over Spencer Creek, 30 ft. SE. of rd. forks, in concrete post; standard tablet stamped "1839 E R A 1935" -----	39 29 20.27	91 25 30.32	6,289
Junction of old rd. -----	39 29 31.2	91 26 08.6	3,196

(Continued in Hannibal quadrangle; see line 7.)

3. FROM FARBER QUADRANGLE AT SEC. 7, T. 54 N., R. 5 W., SOUTH TO SEC. 8,
T. 53 N., R. 5 W. (by C. D. Craig in 1935)
(Continued from Farber quadrangle; see line 6.)

Madisonville, T-rd. S. at -----	39 27 26.3	91 29 51.3	(2,929)
T. 54 N., R. 5 W., cor. secs. 17, 18, 19, and 20, rd. at fence N. -----	39 27 06.1	91 29 49.7	1,845
Rd. at fence E. -----	39 26 43.3	91 29 48.6	2,507
(For balance in Farber quadrangle, see line 6.)			
T. 53 N., R. 5 W., cor. secs. 5, 6, 7, and 8, rd. corner from S.-E. -----	39 23 37.2	91 29 53.0	(1,331)
T-rd. W. -----	39 23 36.1	91 29 16.5	2,712
T-rd. W. -----	39 23 09.9	91 29 19.1	2,650
T. 53 N., R. 5 W., near quarter cor. between secs. 8 and 17, 146 ft. S. and 5 ft. W. from T-rd. E., 15 ft. S. and 5 ft. W. from rd. corner from W.-N., in concrete post; standard tablet stamped "T T 15 C 1935" -----	39 22 42.06	91 29 19.48	2,818

4. FROM BOWLING GREEN QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 61 TO SEC. 2,
T. 54 N., R. 4 W. (by C. D. Craig in 1935)
(Continued from Bowling Green quadrangle; see line 4.)

Highway at fences E. and W. -----	39 25 03.3	91 15 05.2	(3,820)
Bowling Green, 7.2 mi. NW. of, near quarter cor. between secs. 28 and 29, T. 54 N., R. 3 W., 24 ft. N. and 29 ft. E. from crossroad, in concrete post; standard tablet stamped "T T 29 C 1935" -----	39 25 29.97	91 15 13.32	2,770
Crossroad -----	39 26 08.8	91 15 35.1	4,286
Crossroad on line between secs. 17 and 20, T. 54 N., R. 3 W. -----	39 26 48.2	91 15 57.7	4,364
Highway at fences E. and W. -----	39 27 14.5	91 16 16.6	3,043
T. 54 N., R. 3 W., 0.2 mi. W. of cor. secs. 7, 8, 17, and 18, 59 ft. S. and 62 ft. E. from crossroad, in concrete post; standard tablet stamped "T T 30 C 1935" -----	39 27 40.20	91 16 34.93	2,974
Highway at fences N. and S. -----	39 28 04.4	91 17 12.7	3,845
Highway at fences E. and W. -----	39 28 27.4	91 17 53.5	3,957
Peno Creek, center of bridge over -----	39 28 49.0	91 18 14.0	2,716
1837 E R A 1935 (previously described) -----	39 29 20.88	91 18 35.39	3,639

5. FROM FARBER QUADRANGLE AT SEC. 19, T. 53 N., R. 5 W., SOUTH TO VANDALIA,
THENCE SOUTH ALONG COUNTY ROUTE W TO SEC. 28, T. 52 N., R. 5 W., THENCE
EAST ALONG ROADS ABOUT 1 MILE (by C. D. Craig in 1935)
(Continued from Farber quadrangle; see line 7.)

T. 53 N., R. 5 W., cor. secs. 19, 20, 29, and 30, T-rd. S. -----	39 20 59.5	91 29 53.4	(2,680)
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Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 53 N., R. 5 W., cor. secs. 29, 30, 31, and 32, T-rd. N. -----	39 20 07.3	91 29 53.8	5,284
Vandalia, 2 mi. N. of, near quarter cor. between secs. 29 and 32, T. 53 N., R. 5 W., 25 ft. N. and 25 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 27 C 1935" -----	39 20 06.23 39 19 40.1	91 29 19.46 91 29 20.2	2,700 2,643
Rd. at hedge fences E. and W. -----	39 19 14.3	91 29 20.8	2,615
T. 52 N., R. 5 W., N. quarter cor. sec. 5, crossroads -----	39 18 33.9 39 18 25.2	91 29 14.1 91 29 32.7	4,114 1,710
Vandalia, main track of Alton R.R. at main street crossing -----	39 16 12.9	91 28 59.5	2,895
Vandalia, municipal water tower -----			
Vandalia, street intersection near high school -----			
Vandalia, about 1 mi. S. of, cor. secs. 8, 9, 16, and 17, T. 52 N., R. 5 W., 33 ft. S. and 39 ft. W. from crossroad, in concrete post; standard tablet stamped "T T 28 C 1935" -----	39 17 26.83 39 16 47.6	91 28 51.16 91 28 51.6	4,706 3,973
Highway at hedge fences E. and W. -----			
T. 52 N., R. 5 W., cor. secs. 16, 17, 20, and 21, crossroad -----	39 16 34.4 39 16 07.6	91 28 52.0 91 28 52.6	1,329 2,717
Highway at hedge fences E. and W. -----			
T. 52 N., R. 5 W., cor. secs. 20, 21, 28, and 29, crossroad -----	39 15 41.6	91 28 53.2	2,626
T. 52 N., R. 5 W., cor. secs. 21, 22, 27, and 28, stone at center of crossroads -----	39 15 39.7 39 15 13.34	91 27 45.3 91 27 46.18	5,347 2,664
T T Sta No 64 F 1928 (previously described) -----			

6. FROM SEC. 8, T. 53 N., R. 5 W., SOUTHEAST TO SEC. 30, T. 53 N., R. 4 W., THENCE EAST ALONG ALTON RAILROAD INTO BOWLING GREEN QUADRANGLE (by C. D. Craig in 1935)

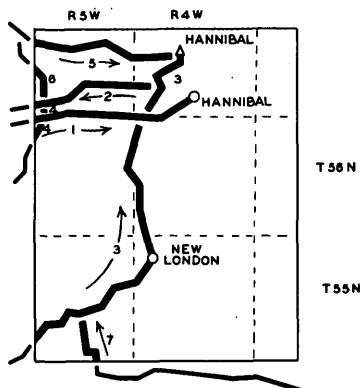
T T 15 C 1935 (previously described) -----	39 22 42.06	91 29 19.48	.....
T. 53 N., R. 5 W., cor. secs. 8, 9, 16, and 17, T-rd. S. -----	39 22 41.6 39 22 40.1	91 28 45.2 91 28 11.1	2,694 2,679
T-rd. N. -----			
T. 53 N., R. 5 W., cor. secs. 9, 10, 15, and 16, T-rd. S. -----	39 22 38.5	91 27 36.9	2,691
T. 53 N., R. 5 W., 1 ft. S. and 2 ft. E. from stone at cor. secs. 10, 11, 14, and 15, 11 ft. N. of rd. corner from W.-S., in concrete post; standard tablet stamped "T T 31 C 1935" -----	39 22 36.44 39 21 57.4	91 26 29.55 91 26 29.8	5,296 3,950
Crossroads -----			
T. 53 N., R. 5 W., S. sixteenth cor. sec. 14, stone at rd. corner from W.-N. -----	39 21 56.1 39 21 28.7	91 25 56.7 91 25 22.5	2,605 3,860
T-rd. N. -----			
T. 53 N., R. 5 W., center of NW 1/4 sec. 24, 14 ft. E. of T-rd. W., 1 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 32 C 1935" -----	39 21 28.16 39 20 48.9	91 25 05.49 91 25 06.0	1,340 3,974
T-rd. N. -----			
T. 53 N., R. 5 W., E. cor. secs. 24 and 25, U.S. Highway 61 at rd. N. -----	39 20 47.3 39 20 46.3	91 24 14.9 91 23 15.9	4,017 4,635
U.S. Highway 61 at crossroad -----			
U.S.C. & G.S. standard disk stamped "S 137 1935" -----	39 20 34.67 39 20 34.2	91 23 15.36 91 22 24.2	1,155 4,020
R.R. at hedge fences N. and S. -----			
R.R. at rd. crossing on line between secs. 28 and 29, T. 53 N., R. 4 W. -----	39 20 34.1	91 21 49.3	2,747
R.R. at rd. crossing on line between secs. 27 and 28, T. 53 N., R. 4 W. -----	39 20 33.8 39 20 34.12	91 20 41.1 91 20 29.26	5,360 929
U.S.C. & G.S. standard disk stamped "R 137 1935" -----			
R.R. at fences N. and S. -----	39 20 33.5 39 20 33.80	91 19 32.3 91 18 56.36	4,478 2,664
U.S.C. & G.S. standard disk stamped "Q 137 1935" -----			
T. 53 N., R. 4 W., quarter cor. between secs. 23 and 26, U.S. Highway 54 at rd. S. -----	39 20 41.4 39 20 33.1	91 18 57.8 91 17 50.5	767 5,355
R.R. at rd. crossing -----			
U.S.C. & G.S. standard disk stamped "P 137 1935" -----	39 20 32.34 39 20 32.6	91 16 46.25 91 15 54.9	5,053 4,035
R.R. at rd. N. and fence S. -----			
R.R. at fences N. and S. -----	39 20 32.4	91 15 20.6	2,692

(Continued in Bowling Green quadrangle; see line 5.)

Magnetic declination 5° 24' E.

HANNIBAL QUADRANGLE *
(Latitude 39°30'-39°45'; longitude 91°15'-91°30')

Marion, Pike, and Ralls Counties



1. FROM MONROE CITY QUADRANGLE NORTHEAST ALONG WABASH RAILWAY TO HANNIBAL
(by George T. Hawkins in 1901)
(Continued from Monroe City quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
R.R. at crossing of Hannibal-Paris rd. -----	39 41 06.7	91 26 06.8	(26,397)
R.R. at crossing of Hannibal-New London rd. -----	39 40 58.1	91 24 09.7	9,188
Tps. 56 and 57 N., Rs. 4 and 5 W., cor. of -----	39 41 06.3	91 23 51.9	1,621
R.R. at crossing of Hannibal-New London rd. -----	39 41 52.7	91 22 26.8	8,195
Hannibal, R.R. at Main Street crossing -----	39 42 26.2	91 21 13.8	6,579

2. FROM HANNIBAL WEST ALONG U.S. HIGHWAY 36 INTO MONROE CITY QUADRANGLE
(by W. V. Kennedy in 1934)

Hannibal, at W. edge of, on U.S. Highway 61, about 140 ft. S. and 180 ft. E. from junction of U.S. Highway 36, 68 ft. SW. of SW. corner of service sta., 36 ft. E. of concrete driveway, in concrete post; standard tablet stamped "1428 C W A 1935" -----	39 42 18.86	91 23 18.15	.....
T. 57 N., Rs. 4 and 5 W., approximate S. sixteenth cor. between secs. 25 and 30, rd. at fence S. -----	39 42 12.9	91 23 50.8	2,625
Highway at fence N. -----	39 42 12.8	91 24 09.7	2,930
Crossroad -----	39 42 12.7	91 24 59.3	2,418
T. 57 N., R. 5 W., S. sixteenth cor. sec. 26, highway at fence S. -----	39 42 12.7	91 25 31.1	2,492
T. 57 N., R. 5 W., S. sixteenth cor. between secs. 26 and 27, highway at fences N. and S. --	39 42 12.7	91 26 04.3	2,590
T. 57 N., R. 5 W., S. sixteenth cor. sec. 27, crossroad -----	39 42 12.7	91 26 37.8	2,620
Hannibal, 3 mi. W. of, in SW 1/4 sec. 27, T. 57 N., R. 5 W., 28 ft. N. and 25 ft. W. from junction of private drive N., 2 ft. S. and 17 ft. W. from concrete post in fence corner, in concrete post; standard tablet stamped "1429 C W A 1935" -----	39 42 12.94	91 26 49.01	876
Highway at fences N. and S. on line between secs. 27 and 28, T. 57 N., R. 5 W. -----	39 42 14.5	91 27 11.4	1,759
Highway at fences N. and S. -----	39 42 12.9	91 27 44.5	2,588
T. 57 N., R. 5 W., in SW 1/4 sec. 28, in NW. abutment of bridge over Bear Creek; standard tablet (set by water-resources branch of U.S. Geol. Survey) -----	39 42 03.85	91 27 58.58	1,434
Highway at fences N. and S., 385 ft. N. of quarter cor. between secs. 32 and 33, T. 57 N., R. 5 W. -----	39 41 37.2	91 28 18.3	3,112
Junction of rd. NW. -----	39 41 33.2	91 28 43.8	2,031
T. 57 N., R. 5 W., quarter cor. between secs. 31 and 32, highway at fence S. -----	39 41 32.6	91 29 25.1	3,229
T. 57 N., R. 5 W., center sec. 31, 31 ft. S. and 55 ft. E. from U.S. Highway 36 at rd. S., 36 ft. E. of fence corner, in concrete post; standard tablet stamped "1430 C W A 1934" -----	39 41 32.49	91 29 58.67	2,625

(Continued in Monroe City quadrangle; see line 2.)

*Part of this quadrangle lies in Illinois.

Station	Latitude			Longitude			Distance
	°	'	"	°	'	"	Feet
3. FROM MONROE CITY QUADRANGLE NORTHEAST ALONG STATE HIGHWAY 19 TO NEW LONDON, THENCE NORTH ALONG U.S. HIGHWAY 61 TO HANNIBAL (by W. V. Kennedy in 1935) (Continued from Monroe City quadrangle; see line 4.)							
Highway at hedge fence S., 357 ft. S. of cor. secs. 19, 20, 29, and 30, T. 55 N., R. 5 W. --- T. 55 N., R. 5 W., W. sixteenth cor. between secs. 20 and 29, 32 ft. N. and 36 ft. E. from junction of rd. N., 2 ft. N. and 14 ft. E. from fence corner, in concrete post; standard tablet stamped "1423 C W A 1934" -----	39	31	27.0	91	29	48.5	(1,651)
Highway at fences E. and W. and hedge fences N. and S. -----	39	31	30.11	91	29	31.24	1,393
Junction of rd. N. -----	39	31	39.8	91	28	57.7	2,805
Highway at hedge fences N. and S. -----	39	31	55.8	91	28	23.6	3,125
Crossroad near cor. secs. 15, 16, 21, and 22, T. 55 N., R. 5 W. -----	39	32	02.8	91	28	07.0	1,480
T. 55 N., R. 5 W., E. sixteenth cor. sec. 15, 38 ft. N. and 225 ft. W. from junction of rd. W., 3 ft. S. and 13 ft. W. from hedge-fence corner, in concrete post; standard tablet stamped "1424 C W A 1934" -----	39	32	17.4	91	27	32.4	3,092
Highway at hedge fence S. on line between secs. 14 and 15, T. 55 N., R. 5 W. -----	39	32	40.90	91	26	43.21	4,526
Crossroad, 488 ft. S. of N. quarter cor. sec. 14, T. 55 N., R. 5 W. -----	39	32	47.8	91	26	24.8	1,602
Junction of rd. S. on line between secs. 11 and 12, T. 55 N., R. 5 W. -----	39	33	01.4	91	25	50.3	3,037
Highway at fence E. -----	39	33	14.2	91	25	16.7	2,929
St. Louis & Hannibal R.R. at highway crossing --- New London, 0.5 mi. S. of, 32 ft. E. of junction of State Highway 19, 5 ft. S. and 66 ft. W. from NW. corner of farmhouse of Dick Hamilton, 3 ft. W. of fence, in concrete post; standard tablet stamped "1425 C W A 1934" -----	39	33	36.6	91	24	50.2	3,078
New London, crossroad at -----	39	34	06.1	91	24	25.4	3,560
Crossroad -----	39	34	35.21	91	23	54.75	3,798
Junction of rd. E., 753 ft. W. of NE. cor. sec. 1, T. 55 N., R. 5 W. -----	39	34	56.8	91	24	01.4	2,241
Highway at fences E. and W. -----	39	35	18.2	91	24	05.1	2,195
T. 56 N., R. 5 W., near quarter cor. between secs. 25 and 36, 29 ft. S. and 111 ft. W. from junction of rd. W., 560 ft. NW. of bridge over Salt River, 55 ft. N. and 105 ft. E. from NE. corner of farmhouse of Lee Beckett, in concrete post; standard tablet stamped "1426 C W A 1934" -----	39	35	55.4	91	24	15.8	3,849
Highway at fences E. and W. -----	39	36	21.5	91	24	18.2	2,654
Highway at fences E. and W. -----	39	36	47.23	91	24	29.99	2,757
Highway at fences E. and W. on line between secs. 24 and 25, T. 56 N., R. 5 W. -----	39	37	13.9	91	24	39.4	2,796
T. 56 N., R. 5 W., quarter cor. between secs. 23 and 24, stone at fence corner, 288 ft. W. of highway -----	39	37	40.2	91	24	49.8	2,778
Highway at fences E. and W. -----	39	38	05.5	91	24	59.4	2,677
Highway at fence E. -----	39	38	31.5	91	25	10.1	2,760
T. 56 N., R. 5 W., about 0.2 mi. W. of cor. secs. 11, 12, 13, and 14, 41 ft. N. and 48 ft. E. from crossroad, 21 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "1427 C W A 1935" -----	39	38	58.0	91	25	10.2	2,676
Highway at fences E. and W. -----	39	39	23.89	91	25	08.89	2,624
Highway at fences E. and W. -----	39	39	49.6	91	25	01.4	2,669
Highway at fences E. and W. on line between secs. 1 and 12, T. 56 N., R. 5 W. -----	39	40	15.6	91	24	53.4	2,701
Crossroad -----	39	40	41.3	91	24	42.4	2,738
Junction of city route to Hannibal at Marion- Ralls county line on line between secs. 1 and 36, Tps. 56 and 57 N., R. 5 W. -----	39	41	07.3	91	24	20.6	2,975
Highway at fences E. and W., 331 ft. W. of approximate quarter cor. between secs. 31 and 36, T. 57 N., Rs. 4 and 5 W. -----	39	41	33.4	91	23	55.4	3,298
T. 57 N., R. 4 W., W. sixteenth cor. between secs. 30 and 31, stone, 234 ft. E. of highway - 1428 C W A 1935 (previously described) -----	39	41	59.6	91	23	34.1	3,133
Crossroad on line between secs. 19 and 30, T. 57 N., R. 4 W. -----	39	42	18.86	91	23	18.15	2,310
Highway at fences E. and W. -----	39	42	46.8	91	23	29.4	2,957
Intersection of Mark Twain Avenue E. and rd. N. to La Grange College -----	39	43	21.7	91	23	30.2	3,538
Intersection of Mark Twain Avenue and rd. NW. --- Hannibal triangulation sta.; U.S.C. & G.S. -----	39	43	37.5	91	23	30.0	1,601
standard disk stamped "Hannibal" -----	39	43	29.9	91	23	13.6	1,496
	39	43	17.61	91	22	41.71	2,783

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

4. FROM SEC. 31, T. 57 N., R. 5 W., SOUTH INTO MONROE CITY QUADRANGLE AT SEC. 6, T. 56 N., R. 5 W. (by C. D. Craig in 1935)

1430 C W A 1934 (previously described) -----	39 41 32.49	91 29 58.67	.....
Wabash Ry. at rd. crossing -----	39 41 07.5	91 29 59.6	2,529

(Continued in Monroe City quadrangle; see line 5.)

5. FROM MONROE CITY QUADRANGLE SOUTHEAST ALONG U.S. HIGHWAY 61 TO HANNIBAL (by J. P. Anderson in 1935)
(Continued from Monroe City quadrangle; see line 8.)

Junction of rd. N. -----	39 44 37.1	91 28 38.6	(7,318)
T. 57 N., R. 5 W., cor. secs. 9, 10, 15, and 16, 40 ft. S. and 30 ft. W. from N.-S. crossroad, 50 ft. N. of Mount Zion Church, in concrete post; standard tablet stamped "1442 C W A 1935" -----	39 44 36.77	91 27 09.27	6,980
Junction of rd. N. -----	39 44 21.3	91 26 03.2	5,593
Junction of rd. S. -----	39 44 02.3	91 25 45.4	2,375
Junction of rd. W. -----	39 43 49.9	91 25 33.6	1,554
Junction of rd. S. -----	39 43 44.4	91 24 39.8	4,245
T. 57 N., R. 4 and 5 W., cor. secs. 13, 18, 19, and 24, 30 ft. S. and 12 ft. W. from junction of rd. N., 10 ft. N. and 12 ft. W. from cut stone driveway entrance, in concrete post; standard tablet stamped "1443 C W A 1935" -----	39 43 44.08	91 23 50.00	3,891
Hannibal triangulation sta. (previously de- scribed) -----	39 43 17.61	91 22 41.71	5,973

6. FROM MONROE CITY QUADRANGLE AT SEC. 19, T. 57 N., R. 5 W., SOUTH TO SEC. 31, T. 57 N., R. 5 W. (by S. T. Tudor in 1935)
(Continued from Monroe City quadrangle; see line 9.)

T. 57 N., R. 5 W., quarter cor. between secs. 19 and 30, T-rd. S. -----	39 42 51.9	91 29 59.8	(2,949)
T-rd. S., 136 ft. E. of center sec. 30, T. 57 N., R. 5 W. -----	39 42 25.7	91 29 58.6	2,654
T. 57 N., R. 5 W., E. sixteenth cor. between secs. 30 and 31, rd. corner from N.-E. -----	39 41 59.4	91 29 41.8	2,969
1430 C W A 1935 (previously described) -----	39 41 32.49	91 29 58.67	3,023

7. FROM VANDALIA QUADRANGLE AT SEC. 34, T. 55 N., R. 5 W., NORTH TO SEC. 15, T. 55 N., R. 5 W. (by C. E. Wyrick in 1935)
(Continued from Vandalia quadrangle; see line 2.)

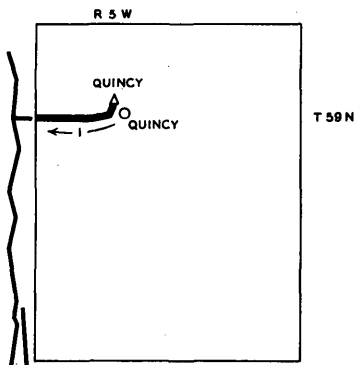
T-rd. S. -----	39 30 05.3	91 26 52.4	(4,864)
T. 55 N., R. 5 W., quarter cor. between secs. 33 and 34, T-rd. E. -----	39 30 06.7	91 27 33.7	3,245
T. 55 N., R. 5 W., cor. secs. 27, 28, 33, and 34, 380 ft. W. of crossroads, 33 ft. S. of E.-W. rd., 18 ft. E. of entrance to cemetery at Salem Church, in concrete post; standard tablet stamped "1840 E R A 1935" -----	39 30 33.27	91 27 38.14	2,721
T-rd. E. -----	39 30 58.6	91 27 33.0	2,592
Crossroads -----	39 31 25.4	91 27 32.6	2,720
State Highway 19 at crossroad (previously de- scribed) -----	39 32 17.4	91 27 32.4	5,258
1424 C W A 1934 (previously described) -----	39 32 40.90	91 26 43.21	4,528

Magnetic declination 5° 27' E.

TRANSIT TRAVERSE IN MISSOURI

QUINCY QUADRANGLE *
(Latitude $39^{\circ}45' - 40^{\circ}00'$; longitude $91^{\circ}15' - 91^{\circ}30'$)

Lewis and Marion Counties



1. FROM QUINCY WEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO PALMYRA QUADRANGLE (by George T. Hawkins in 1900)

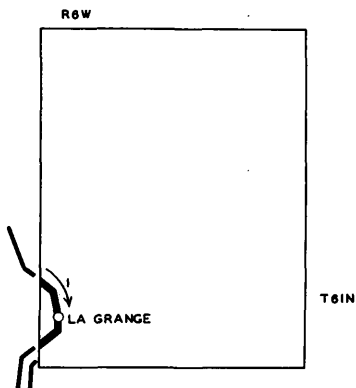
Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Quincy triangulation sta. (M.R.C.) -----	39 56 30.69	91 24 49.70	.....
West Quincy, R.R. at sta. -----	39 56 06.7	91 26 07.7	6,538

(Continued in Palmyra quadrangle; see line 1.)

Magnetic declination in 1922, $6^{\circ} 00'$ E.

MENDON QUADRANGLE **
(Latitude $40^{\circ}00' - 40^{\circ}15'$; longitude $91^{\circ}15' - 91^{\circ}30'$)

Clark and Lewis Counties



1. FROM CANTON QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 INTO CANTON QUADRANGLE (by J. P. Anderson in 1934-35)

(Continued from Canton quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Wyaconda River, center of bridge over -----	40 03 32.0	91 29 55.2	(2,404)
La Grange, highway at N. limits of -----	40 03 05.8	91 29 48.3	2,710

*The greater part of this quadrangle lies in Illinois.

**The greater part of this quadrangle lies in Illinois.

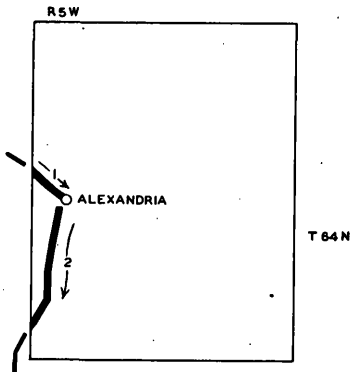
Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
La Grange, center of Gardner-Denver Co.'s water tower -----	40 03 00.2	91 29 46.6	573
La Grange, highway at S. limits of -----	40 02 06.0	91 29 57.4	5,557

(Continued in Canton quadrangle; see line 2.)

Magnetic declination 5° 38' E.

KEOKUK QUADRANGLE *
(Latitude 40°15' - 40°30'; longitude 91°15' - 91°30')

Clark County



1. FROM KAHOKA QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 4 TO ALEXANDRIA
(by S. T. Tudor in 1935)
(Continued from Kahoka quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Highway at fence N. near cor. Tps. 64 and 65 N., Rs. 5 and 6 W. -----	40 22 40.6	91 29 34.5	(3,178)
Junction of lane N. at fence S. -----	40 22 23.8	91 29 00.8	3,115
Junction of rd. W. -----	40 21 51.4	91 27 53.3	6,170
Alexandria, 42 ft. N. and 45 ft. W. from inter- section of Walnut and Market Streets, at SE. corner of schoolyard, in concrete post; standard tablet stamped "1522 E R A 1935" -----	40 21 33.90	91 27 24.20	2,865
Flag No. 1 triangulation sta.; M.R.C. stone post- BM 489 R 109 triangulation sta.; M.R.C. iron pipe stamped "489 R 109" -----	40 21 38.39	91 27 22.04	481
	40 21 29.29	91 27 10.74	1,270

2. FROM ALEXANDRIA SOUTHWEST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD
INTO KAHOKA QUADRANGLE (by S. T. Tudor in 1935)

1522 E R A 1935 (previously described) -----	40 21 33.90	91 27 24.20	.....
R.R. at E.-W. levee -----	40 21 13.7	91 27 45.3	2,618
R.R. at fence W. on line between secs. 8 and 17, T. 64 N., R. 5 W. -----	40 20 59.3	91 26 02.2	1,954
R.R. at fence W. -----	40 20 20.6	91 28 40.9	4,928
R.R. at milepost 170 -----	40 19 34.7	91 29 00.4	4,889
108/3 triangulation sta.; M.R.C. iron pipe -----	40 18 33.34	91 29 10.93	6,261
R.R. at milepost 168 -----	40 17 52.5	91 29 19.4	4,182
R.R. at milepost 167 -----	40 17 02.9	91 29 40.0	5,269
495 R 108 triangulation sta.; M.R.C. iron pipe stamped "495 R 108" -----	40 16 31.27	91 29 51.21	3,314

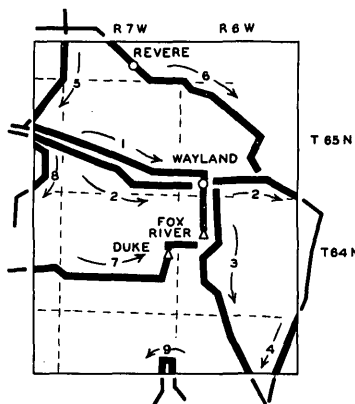
(Continued in Kahoka quadrangle; see line 4.)

Magnetic declination 5° 32' E.

*The greater part of this quadrangle lies in Illinois and Iowa.

KAHOKA QUADRANGLE *
(Latitude 40°15'-40°30'; longitude 91°30'-91°45')

Clark and Lewis Counties



1. FROM WYACONDA QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO WAYLAND, THENCE SOUTH TO SEC. 7, T. 64 N., R. 6 W. (by George T. Hawkins in 1900)
(Continued from Wyaconda quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Kahoka, R.R. at sta. -----	40 25 22.0	91 43 00.8	(17,196)
Clark City, R.R. at sta. -----	40 25 10.8	91 40 51.9	10,030
T. 65 N., R. 7 W., center sec. 21, R.R. at rd. crossing -----	40 25 09.3	91 40 22.3	2,294
T. 65 N., R. 6 W., cor. secs. 29, 30, 31, and 32 -----	40 23 41.5	91 35 14.5	25,410
Wayland, R.R. at sta. -----	40 23 41.9	91 35 05.9	674
Fox River triangulation sta. (M.R.C.) -----	40 21 34.47	91 35 19.38	12,932

2. FROM WYACONDA QUADRANGLE EAST ALONG STATE HIGHWAY 4 INTO KEOKUK QUADRANGLE (by S. T. Tudor in 1935)
(Continued from Wyaconda quadrangle; see line 2.)

Highway at fences N. and S. -----	40 25 16.0	91 44 51.9	(2,630)
T. 65 N., R. 6 W., quarter cor. between secs. 23 and 24, crossroad -----	40 25 15.5	91 44 17.7	2,649
T. 65 N., R. 8 W., approximate center sec. 24, crossroad -----	40 25 14.9	91 43 43.4	2,656
Kahoka, 40 ft. N. and 65 ft. E. from intersection of Main and Washington Streets, in concrete post; standard tablet stamped "1517 E R A 1935" -----	40 25 13.77	91 43 16.08	1,958
Junction of rd. S. -----	40 25 12.6	91 42 05.2	5,638
Junction of rd. S. -----	40 25 11.6	91 41 31.2	2,630
Junction of rd. S. on line between secs. 20 and 21, T. 65 N., R. 7 W. -----	40 24 49.4	91 40 57.0	3,467
T. 65 N., R. 7 W., in NE 1/4 sec. 28, 35 ft. S. of E.-W. crossroad, in concrete post; standard tablet stamped "1518 E R A 1935" -----	40 24 16.35	91 40 16.98	4,559
Crossroad -----	40 23 21.8	91 39 09.2	7,613
Crossroad on line between secs. 34 and 35, T. 65 N., R. 7 W. -----	40 23 00.3	91 38 42.0	3,027
T. 65 N., R. 7 W., near quarter cor. between secs. 35 and 36, 35 ft. S. of highway at fence S., in concrete post; standard tablet stamped "1519 E R A 1935" -----	40 23 10.29	91 37 39.96	4,911
Junction of rd. N. -----	40 23 27.3	91 36 59.2	3,592
Crossroad on line between secs. 31 and 36, T. 65 N., Rs. 6 and 7 W. -----	40 23 27.0	91 36 24.7	2,667
Wayland, 50 ft. N. and 65 ft. W. from junction of U.S. Highway 61 and State Highway 4, in concrete post; standard tablet stamped "1520 E R A 1935" -----	40 23 32.83	91 34 58.63	6,690
Junction of rd. N. -----	40 23 40.7	91 34 42.4	1,466
T. 65 N., R. 6 W., cor. secs. 28, 29, 32, and 33, highway at fence N. -----	40 23 40.2	91 34 02.6	3,080
Junction of rd. N. -----	40 23 40.0	91 33 49.2	1,040
T. 65 N., R. 6 W., cor. secs. 27, 28, 33, and 34, highway at fence S. -----	40 23 39.6	91 32 58.1	3,950

* A small part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Crossroad -----	40 23 39.2	91 32 24.0	2,640
Wayland, about 3 mi. E. of, 35 ft. NE. of curve			
in highway from W.-SE., in concrete post;			
standard tablet stamped "1521 E R A 1935" -----	40 23 36.68	91 31 28.26	4,321
Highway on curve at fences N. and S. -----	40 23 21.4	91 31 16.2	1,806
T. 65 N., R. 6 W., quarter cor. between secs. 35			
and 36, highway at fence N. -----	40 23 10.6	91 30 42.2	2,854
Junction of rd. N. -----	40 22 58.4	91 30 08.3	2,900

(Continued in Keokuk quadrangle; see line 1.)

3. FROM WAYLAND SOUTH ALONG STATE HIGHWAY 4 AND U.S. HIGHWAY 61 INTO CANTON QUADRANGLE (by S. T. Tudor in 1935)

1520 E R A 1935 (previously described) -----	40 23 32.83	91 34 58.63	.....
Highway on curve at fences	40 23 01.8	91 35 00.8	3,141
Highway at fences E. and W., approximately			
640 ft. E. of S. cor. secs. 31 and 32, T. 65			
N., R. 6 W. -----	40 22 48.8	91 35 07.6	1,420
Highway at fence E. -----	40 22 27.3	91 35 17.6	2,307
T. 64 N., R. 6 W., cor. secs. 5, 6, 7, and 8,			
highway at fences E. and W. -----	40 21 57.3	91 35 17.9	3,036
Fox River triangulation sta. (previously de-			
scribed) -----	40 21 34.47	91 35 19.38	2,309
Highway at fence W., 150 ft. E. of cor. secs. 7,			
8, 17, and 18, T. 64 N., R. 6 W. -----	40 21 04.1	91 35 17.5	3,073
Sugar Creek, N. end of bridge over -----	40 20 37.7	91 35 14.1	2,691
T. 64 N., R. 6 W., cor. secs. 17, 18, 19, and 20,			
junction of rd. E. -----	40 20 12.1	91 35 19.8	2,620
Junction of rd. W. -----	40 19 33.1	91 35 07.5	4,064
Highway at fences E. and W. -----	40 18 40.6	91 34 30.6	6,036
T. 64 N., R. 6 W., about 0.2 mi. W. of cor.			
secs. 28, 29, 32, and 33, 75 ft. S. and 45 ft.			
W. from crossroad, in concrete post; standard			
tablet stamped "1523 E R A 1935" -----	40 18 26.85	91 34 28.15	1,399
Highway at fence W. -----	40 17 58.0	91 34 23.8	2,934
Highway at fences E. and W. on S. line sec. 32,			
T. 64 N., R. 6 W. -----	40 17 35.5	91 34 26.8	2,291
Junction of County Route -----	40 17 09.6	91 34 02.6	3,226
Highway at fence E., 260 ft. E. of W. sixteenth			
cor. between secs. 4 and 9, T. 63 N., R. 6 W. -	40 16 43.3	91 33 56.3	2,706
Highway at fence E. -----	40 16 16.7	91 33 28.5	3,450
T. 63 N., R. 6 W., 640 ft. E. of cor. secs. 9,			
10, 15, and 16, 50 ft. W. of highway at fence			
W., in concrete post; standard tablet stamped			
"1531 E R A 1935" -----	40 15 50.16	91 33 02.06	3,374
Crossroad -----	40 15 23.8	91 32 44.0	3,011

(Continued in Canton quadrangle; see line 3.)

4. FROM KEOKUK QUADRANGLE SOUTH ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO CANTON QUADRANGLE (by S. T. Tudor in 1935)

(Continued from Keokuk quadrangle; see line 2.)

R.R. at fence W. -----	40 16 09.1	91 30 00.3	(2,348)
R.R. at fence W. -----	40 15 21.7	91 30 15.8	4,942

(Continued in Canton quadrangle; see line 4.)

5. FROM DONNELLSON QUADRANGLE SOUTH ALONG STATE HIGHWAY 61 TO SEC. 1, T. 65 N., R. 8 W., THENCE SOUTHWEST ALONG ATCHISON, TOPEKA & SANTA FE RAILWAY INTO WYACONDA QUADRANGLE (by C. D. Craig in 1936)

(Continued from Donnellson quadrangle; see line 1.)

Crossroad -----	40 29 36.4	91 43 57.9	(4,060)
Junction of rd. NW. -----	40 29 16.7	91 43 58.1	1,995
Highway at fences E. and W. -----	40 28 43.9	91 43 58.4	3,320
T. 65 N., R. 8 W., W. sixteenth cor. on N. line			
sec. 1, crossroad -----	40 28 17.8	91 43 58.7	2,645
Kahoka, 3 mi. N. of, 195 ft. N. and 47 ft. W.			
from Atchison, Topeka & Santa Fe Ry. double-			
track crossing, 11 ft. N. and 2 ft. E. from			
fence corner, in concrete post; standard tablet			
stamped "T T 95 C 1936" -----	40 27 36.85	91 44 07.15	4,194
R.R. at battery box -----	40 26 59.7	91 44 27.0	4,065

(Continued in Wyaconda quadrangle; see line 7.)

*It was reported in 1940 that this monument was reset 82 ft. N. and 62 ft. W. of above described location and position. Coordinates given refer to the new position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

6. FROM DONNELLSON QUADRANGLE SOUTHEAST ALONG COUNTY ROUTE C TO REVERE, THENCE SOUTHEAST ALONG ROADS TO SEC. 26, T. 65 N., R. 6 W. (by C. D. Craig in 1936)

(Continued from Donnellson quadrangle; see line 2.)

Junction of rd. S., 263 ft. N. of T-rd. W. -----	40 29 47.5	91 41 03.2	(5,196)
Revere, 165 ft. W. of W. corner of Atchison, Topeka & Santa Fe Ry. sta., 35 ft. E. of rd., 3 ft. N. and 8 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 96 C 1936" -----	40 29 31.55	91 40 29.99	3,239
T. 66 N., R. 7 W., cor. secs. 27, 28, 33, and 34, crossroads -----	40 29 03.4	91 39 37.5	4,954
Rd. at hedge fence S. -----	40 28 45.1	91 38 49.8	4,130
Revere, 3 mi. SE. of, near W. sixteenth cor. between secs. 2 and 35, Tps. 65 and 66 N., R. 7 W., 52 ft. W. of rd. fork E., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 97 C 1936" -----	40 28 07.99	91 38 14.56	4,633
T. 66 N., R. 7 W., S. quarter cor. sec. 35, T-rd. N. -----	40 28 07.1	91 37 55.7	1,462
T-rd. N. -----	40 28 05.9	91 37 21.5	2,643
Rd. corner from W.-S. -----	40 28 03.5	91 36 29.5	4,027
T-rd. E. -----	40 27 50.2	91 36 30.5	1,348
St. Francisville, 2 mi. NW. of, in NE 1/4 sec. 6, T. 65 N., R. 6 W., 70 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 98 C 1936" -----	40 27 48.61	91 35 23.20	5,207
Rd. at fences N. and S. -----	40 27 42.1	91 35 06.4	1,457
St. Francisville, County Route B at crossroads, 0.2 mi. S. of bridge over Des Moines River ---	40 27 30.5	91 34 02.9	5,049
St. Francisville, 38 ft. N. and 48 ft. W. from NW. corner of schoolyard, 42 ft. S. of street, 2 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 99 C 1936" -----	40 27 01.55	91 34 00.96	2,932
Rd. corner from W.-S. -----	40 26 55.6	91 33 34.1	2,164
Rd. fork S. -----	40 26 31.4	91 33 30.2	2,464
Rd. corner from E.-S. -----	40 26 23.4	91 33 11.4	1,669
T-rd. W. -----	40 26 09.0	91 32 23.7	3,968
St. Francisville, 3 mi. SE. of, near quarter cor. between secs. 15 and 22, T. 65 N., R. 6 W., 2 ft. N. and 28 ft. E. from rd. at fences E. and W., 2 ft. N. and 8 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 100 C 1936" -----	40 25 23.56	91 32 22.67	4,596
Rd. corner from E.-S. -----	40 24 57.8	91 32 40.8	2,961
Center of triangle formed by rd. fork S. -----	40 24 13.5	91 32 23.0	4,686
T. 65 N., R. 6 W., quarter cor. between secs. 27 and 34, State Highway 4 at crossroads -----	40 23 39.2	91 32 24.0	3,473
T. 65 N., R. 6 W., cor. secs. 26, 27, 34, and 35, junction of rd. N. -----	40 23 38.8	91 31 50.1	2,625
1521 E R A 1935 (previously described) -----	40 23 36.68	91 31 28.26	1,702

7. FROM WYACONDA QUADRANGLE AT SEC. 26, T. 64 N., R. 8 W., EAST TO SEC. 7, T. 64 N., R. 6 W. (by C. D. Craig in 1936)

(Continued from Wyaconda quadrangle; see line 4.)

Rd. fork S. -----	40 19 21.6	91 45 00.0	(4,034)
T. 64 N., R. 8 W., near cor. secs. 23, 24, 25, and 26, 180 ft. N. of rd. fork S., 5 ft. W. (?) and 2 ft. E. (?) from fence corner, in concrete post; standard tablet stamped "T T 108 C 1936" -----	40 19 32.76	91 44 25.14	2,925
Wyaconda River, center of bridge over -----	40 19 34.5	91 43 59.2	2,019
Rd. at fence S. -----	40 19 33.8	91 43 47.3	920
T. 64 N., R. 8 W., E. cor. secs. 24 and 25, E.-W. rd. at abandoned crossroad, 175 ft. N. of W. cor. secs. 19 and 30, T. 64 N., R. 7 W. -----	40 19 33.2	91 43 15.6	2,460
County Route T at rd. S. -----	40 19 30.9	91 42 59.7	1,249
County Route T at fence S. -----	40 19 30.0	91 42 09.5	3,893
County Route T at rd. N. -----	40 19 29.7	91 41 52.4	1,325
Antioch, in SW 1/4 sec. 20, T. 64 N., R. 7 W., in NW. corner of store building; standard tablet stamped "698 A" -----	40 19 29.00	91 41 35.05	1,345
T. 64 N., R. 7 W., cor. secs. 20, 21, 28, and 29, T-rd. N. at abandoned lane S. -----	40 19 28.6	91 41 01.2	2,626
Rd. at fence N. -----	40 19 27.7	91 40 27.2	2,636
T. 64 N., R. 7 W., cor. secs. 21, 22, 27, and 28, stone at T-rd. S. -----	40 19 26.7	91 39 52.8	2,659
Rd. corner from W.-S. -----	40 19 25.6	91 39 18.5	2,664
Rd. corner from W.-S. -----	40 19 24.6	91 38 44.2	2,662
T. 64 N., R. 7 W., near N. sixteenth cor. sec. 26, 17 ft. S. and 26 ft. E. from T-rd. W., 7 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 109 C 1936" -----	40 19 11.13	91 38 10.30	2,956
Crossroads -----	40 19 49.8	91 38 10.2	3,911
T-rd. N. -----	40 19 46.9	91 37 19.1	3,960

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Dukes triangulation sta.; U.S.C. & G.S. standard disk stamped "Dukes 1931" -----	40 20 25.47	91 37 19.09	3,705
U.S.C. & G.S. standard disk stamped "Dukes No 1" -----	40 20 40.72	91 37 18.75	1,543
Rd. at fences N. and S. -----	40 20 40.5	91 37 01.3	1,349
T. 64 N., R. 7 W., E. quarter cor. sec. 13, rd. at fence N. -----	40 20 39.3	91 36 27.9	2,593
Rd. at fences N. and S. -----	40 20 47.6	91 35 53.8	2,766
U.S. Highway 61 at rd. W. -----	40 20 51.5	91 35 16.7	2,902
Fox River triangulation sta. (previously described) -----	40 21 34.47	91 35 19.38	4,351

8. FROM WYACONDA QUADRANGLE AT SEC. 23, T. 65 N., R. 8 W., SOUTH INTO WYACONDA QUADRANGLE AT SEC. 35, T. 65 N., R. 8 W. (by C. D. Craig in 1936)

1516 E R A 1935 (In Wyaconda quadrangle; see line 2.) -----	40 25 18.30	91 46 02.51	.....
T. 65 N., R. 8 W., cor. secs. 23, 24, 25, and 26, rd. at fences E. and W. -----	40 24 49.4	91 44 18.5	8,594
Rd. at fences E. and W. -----	40 24 23.1	91 44 18.9	2,660
Kahoka, 1 mi. W. and 1.5 mi. S. from, cor. secs. 25, 26, 35, and 36, T. 65 N., R. 8 W., 59 ft. S. and 20 ft. W. from crossroads, 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 113 C 1936" -----	40 23 56.20	91 44 19.50	2,719
T-rd. E., 215 ft. N. of fence W. -----	40 23 32.4	91 44 19.8	2,405
T. 65 N., R. 8 W., S. cor. secs. 35 and 36, T-rd. N. -----	40 23 04.6	91 44 20.7	2,819

(Continued in Wyaconda quadrangle; see line 5.)

9. FROM CANTON QUADRANGLE AT SEC. 24, T. 63 N., R. 7 W., WEST INTO CANTON QUADRANGLE AT SEC. 24, T. 63 N., R. 7 W. (by C. D. Craig in 1936)
(Continued from Canton quadrangle; see line 6.)

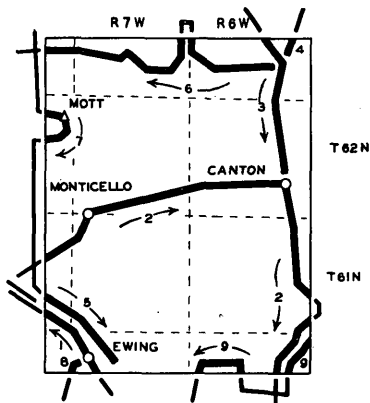
T. 63 N., R. 7 W., E. sixteenth cor. between secs. 13 and 24, stone in line with County Route T from S.-W. at lane E. on Clark-Lewis county line -----	40 15 02.2	91 36 51.6	(2,629)
T-rd. N. -----	40 15 03.7	91 37 27.8	2,812

(Continued in Canton quadrangle; see line 6.)

Magnetic declination 5° 23' E.

CANTON QUADRANGLE*
(Latitude 40°00'-40°15'; longitude 91°30'-91°45')

Clark and Lewis Counties



1. FROM PALMYRA QUADRANGLE NORTHWEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO La BELLE QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Palmyra quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 60 N., R. 7 W., cor. secs. 7, 8, 17, and 18 --	40 00 16.7	91 42 37.8	(16,626)

* A narrow strip along the eastern border of this quadrangle lies in Illinois.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Ewing, R.R. at sta. -----	40 00 18.3	91 42 49.2	909
(Continued in La Belle quadrangle; see line 1.)			

2. FROM LA BELLE QUADRANGLE NORTHEAST ALONG STATE HIGHWAY 96 TO CANTON,
THENCE SOUTH ALONG U.S. HIGHWAY 61 INTO PALMYRA QUADRANGLE (by
J. P. Anderson in 1934-35)

(Continued from La Belle quadrangle; see line 3.)

Middle Fabius River, center of bridge over -----	40 05 35.9	91 44 09.9	(5,716)
Junction of rd. S. -----	40 06 00.6	91 43 27.9	4,113
Junction of rd. S. -----	40 06 15.1	91 43 04.0	2,362
North Fabius River, center of bridge over -----	40 06 30.2	91 42 51.2	1,828
Monticello, 40 ft. N. of S. limits of, 40 ft. E. of highway, in concrete post; standard tablet stamped "1429 C W A 1934" -----	40 06 56.95	91 42 43.18	2,774
Monticello, junction of County Route A -----	40 07 18.0	91 42 32.2	2,262
Highway at fences N. and S. -----	40 07 20.0	91 41 36.8	4,240
Highway at fences N. and S. -----	40 07 21.8	91 40 30.0	5,344
Crossroad -----	40 07 29.6	91 40 09.0	1,617
Monticello, 3.2 mi. E. of, 35 ft. N. of highway, 25 ft. E. of driveway, 400 ft. S. of dwelling, in concrete post; standard tablet stamped "1430 C W A 1934" -----	40 07 50.99	91 39 11.90	4,934
Junction of rd. N. -----	40 07 56.2	91 38 30.2	3,282
Sugar Creek, center of bridge over -----	40 08 04.4	91 37 04.8	6,667
Monticello, 6.4 mi. E. of, along State Highway 96, 30 ft. N. and 25 ft. W. from crossroad, in concrete post; standard tablet stamped "1431 C W A 1934" -----	40 08 18.84	91 35 39.91	6,759
Junction of rd. N. -----	40 08 29.1	91 34 27.4	5,727
Wyaconda River, center of bridge over -----	40 08 27.5	91 33 53.5	2,643
Junction of rd. S. -----	40 08 21.6	91 33 23.0	2,447
Canton, at W. limits of, 15 ft. S. and 49 ft. W. from junction of County Route T, in concrete post; standard tablet stamped "1432 C W A 1935" -----	40 08 08.55	91 32 34.14	4,015
Canton, highway at W. limits of -----	40 08 05.0	91 32 17.3	1,354
Canton, junction of U.S. Highway 61 -----	40 08 02.7	91 31 07.6	5,425
Junction of rd. E. -----	40 06 45.3	91 31 08.1	7,829
Canton, 1 mi. S. of, 40 ft. E. of junction of rd. W., 4 ft. W. of corner fence post, in concrete post; standard tablet stamped "1433 C W A 1935" -----	40 06 29.26	91 31 02.79	1,676
Highway at fences E. and W. -----	40 06 02.3	91 30 54.14	2,807
Junction of rd. E. -----	40 05 38.1	91 30 41.8	2,637
La Grange, 1 mi. N. of, 20 ft. S. and 40 ft. E. from crossroad, in concrete post; standard tablet stamped "1434 C W A 1935" -----	40 03 54.82	92 30 04.00	10,855

(For balance in Mendon quadrangle; see line 1.)

Junction of rd. W. -----	40 01 31.0	91 30 23.5	(4,077)
La Grange, 1 mi. S. of, 60 ft. S. of cottage, 60 ft. E. of highway, in concrete post; stan- dard tablet stamped "1435 C W A 1935" -----	40 01 21.18	91 30 31.16	1,161
Junction of rd. S. -----	40 00 57.2	91 30 58.2	3,209
Junction of rd. W. -----	40 00 40.9	91 31 30.6	3,017
Junction of rd. W. at fence E. at line between secs. 11 and 14, T. 60 N., R. 6 W. -----	40 00 17.5	91 31 33.4	2,376
Junction of rd. E. -----	40 00 04.3	91 31 33.7	1,340

(Continued in Palmyra quadrangle; see line 3.)

3. FROM KAHOKA QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO CANTON (by
S. T. Tudor in 1935)

(Continued from Kahoka quadrangle; see line 3.)

Junction of rd. W. on Clark-Lewis county line, 480 ft. E. of quarter cor. between secs. 15 and 22, T. 63 N., R. 6 W. -----	40 14 57.3	91 32 31.3	(2,855)
Junction of rd. E., 550 ft. E. of cor. secs. 22, 23, 26, and 27, T. 63 N., R. 6 W. -----	40 14 04.5	91 31 58.3	5,923
Junction of rd. W. -----	40 13 44.4	91 31 50.0	2,131
T. 63 N., R. 6 W., in N $\frac{1}{2}$ sec. 35, 120 ft. S. and 45 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "1532 E R A 1935" -----	40 12 57.81	91 31 33.97	4,880
Crossroad, 340 ft. E. of S. quarter cor. sec. 35, T. 63 N., R. 6 W. -----	40 12 19.8	91 31 28.3	3,865
Cougil triangulation sta. (M.R.C.) -----	40 11 27.42	91 31 18.72	5,352
Highway at fences E. and W. -----	40 10 49.1	91 31 25.3	3,912

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Canton, about 2 mi. N. of, 50 ft. W. of highway, 60 ft. N. and 15 ft. E. from schoolhouse, in concrete post; standard tablet stamped "1533 E R A 1935" -----	40 10 14.44	91 31 38.98	3,661
Junction of rd. W. -----	40 09 17.0	91 31 22.5	5,254
Canton, N. Seventh Street at fence W. -----	40 08 28.6	91 31 23.2	4,889
Canton, State Highway 96 at N. Seventh Street ---	40 08 02.4	91 31 23.6	2,655
Canton, 103 ft. N. of E. face of main building of Culver-Stockton College; stone marked "U S" ---	40 07 51.57	91 31 47.84	2,179
Canton, stone, 40 ft. S. and 25 ft. E. from SE. corner of main building of Culver-Stockton College -----	40 07 48.88	91 31 47.58	273
Canton, Culver-Stockton College water tower (U.S.C. & G.S. tie) -----	40 07 43.15	91 31 49.72	603

4. FROM KAHOKA QUADRANGLE SOUTH ALONG CHICAGO, BURLINGTON & QUINCY
RAILROAD TO SEC. 35, T. 63 N., R. 6 W. (by S. T. Tudor in 1935)
(Continued from Kahoka quadrangle; see line 4.)

Flag No. 5 triangulation sta. (M.R.C.) -----	40 14 56.66	91 30 06.84	(2,628)
R.R. at fence E. -----	40 14 29.5	91 30 32.8	3,406
R.R. at rd. crossing -----	40 14 03.6	91 30 41.2	2,696
106/4 triangulation sta.; M.R.C. iron pipe -----	40 13 23.27	91 31 06.72	4,539
1532 E R A 1935 (previously described) -----	40 12 57.81	91 31 33.97	3,331

5. FROM La BELLE QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 6 TO SEC. 17,
T. 60 N., R. 7 W. (by C. D. Craig in 1936)
(Continued from La Belle quadrangle; see line 5.)

U.S.C. & G.S. standard disk stamped "K 15 1933"- Crossroad on line between secs. 1 and 36, Tps. 60 and 61 N., R. 8 W. -----	40 02 32.99	91 44 54.69	(3,767)
Center of bridge over Quincy, Omaha & Kansas City R.R. -----	40 02 05.2	91 44 15.5	4,147
T. 60 N., R. 7 W., W. cor. secs. 6 and 7, stone at fence corner -----	40 01 27.8	91 43 42.0	4,597
Crossroad near sign marked "Ewing" -----	40 01 12.5	91 43 48.6	1,624
Ewing, Quincy, Omaha & Kansas City R.R. at sta. - Ewing, in SE 1/4 sec. 7, T. 60 N., R. 7 W., in E. face of stone foundation of Reformed Lutheran Church; standard tablet stamped "687 A" -----	40 00 33.3	91 43 16.8	4,678
T. 60 N., R. 7 W., cor. secs. 7, 8, 17, and 18, T-rd. N. -----	40 00 18.3	91 42 49.2	2,635
U.S.C. & G.S. standard disk stamped "H 15 1933"-	40 00 29.81	91 42 50.16	1,170
	40 00 19.6	91 42 37.8	1,410
	40 00 00.86	91 42 17.35	2,477

6. FROM SEC. 35, T. 63 N., R. 6 W., WEST INTO La BELLE QUADRANGLE AT SEC. 23,
T. 63 N., R. 8 W. (by C. D. Craig in 1936)

1532 E R A 1935 (previously described) -----	40 12 57.81	91 31 33.97	.....
U.S. Highway 61 at rd. W. -----	40 13 44.4	91 31 50.1	4,882
Rd. at fences N. and S. -----	40 13 39.9	91 33 13.6	6,492
Buena Vista School, quarter cor. between secs. 28 and 29, T. 63 N., R. 6 W., 24 ft. N. and 35 ft. W. from crossroads, at SE. corner of school- yard, in concrete post; standard tablet stamped "T T 119 C 1936" -----	40 13 41.52	91 34 22.11	5,316
Rd. at fence S. -----	40 13 41.2	91 34 55.7	2,608
County Route T at rd. E. -----	40 13 42.1	91 36 03.4	5,250
County Route T at fences E. and W. -----	40 14 08.4	91 36 02.5	2,661
St. Patrick, 2 mi. SE. of, along County Route T, 10 ft. N. and 28 ft. W. from highway from N.-E. at rd. S., 10 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 120 C 1936" -----	40 14 36.24	91 36 52.59	4,799

(For balance in Kahoka quadrangle, see line 9.)

Rd. fork W. -----	40 14 38.8	91 37 48.3	(2,974)
T. 63 N., R. 7 W., 0.1 mi. W. of quarter cor. between secs. 24 and 25, at intersection of tangents of rd. from N.-W., 11 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 121 C 1936" -----	40 14 11.93	91 37 35.43	2,901
T-rd. E. -----	40 13 46.0	91 37 45.1	2,733
Rd. at fence N. -----	40 13 20.1	91 38 02.7	2,949
T-rd. S. at fence N. -----	40 13 21.3	91 38 53.6	3,944
Rd. at fence S. -----	40 13 21.5	91 39 10.6	1,325
Derrahs, in SW 1/4 sec. 27, T. 63 N., R. 7 W., N. of rd., in fence corner SE. of schoolhouse; iron post stamped "608 A" -----	40 13 21.96	91 39 47.13	2,832
T-rd. W. -----	40 13 53.5	91 40 00.8	3,362

Station	Latitude	Longitude	Distance
Rd. at fence S. and hedge fence N. -----	° 1 "	° 1 "	Feet
Rd. at fences N. and S. -----	40 14 09.3	91 40 50.6	4,184
Williamstown, 4 mi. E. of, E. sixteenth cor. between secs. 19 and 30, T. 63 N., R. 7 W., 18 ft. N. and 15 ft. E. from T-rd. S., 18 ft. N. and 350 ft. W. from T-rd. N., 1 ft. S. of hedge fence, in concrete post; standard tablet stamped "T T 122 C 1936" -----	40 14 17.0	91 41 41.9	4,051
T-rd. W., 200 ft. N. of T-rd. E. -----	40 14 18.26	91 42 37.61	4,322
Rd. at fence S. -----	40 14 22.0	91 43 57.3	6,200
		91 44 37.1	3,082

(Continued in La Belle quadrangle; see line 6.)

7. FROM La BELLE QUADRANGLE AT SEC. 11, T. 62 N., R. 8 W., SOUTH AND WEST
INTO La BELLE QUADRANGLE AT SEC. 11, T. 62 N., R. 8 W. (by C. D. Craig
in 1936)

(Continued from La Belle quadrangle; see line 5.)

Mott triangulation sta.; U.S.C. & G.S. standard disk stamped "Mott 1934" -----	40 11 01.87	91 44 32.45	(4,954)
Bunker Hill, in E½ sec. 11, T. 62 N., R. 8 W., in SE. corner of front yard of George Nelson; iron post stamped "701 A" -----	40 11 22.5	91 43 57.3	
	40 11 15.26	91 44 55.42	2,238

(Continued in La Belle quadrangle; see line 5.)

8. FROM EWING SOUTHWEST INTO PALMYRA QUADRANGLE AT SEC. 13, T. 60 N.,
R. 8 W. (by C. D. Craig in 1936)

687 A (previously described) -----	40 00 29.81	91 42 50.16	.....
T-rd. E. -----	40 00 20.0	91 43 33.2	3,495
Rd. at fence N. at E. approach of bridge over Grassy Creek -----	40 00 09.2	91 43 49.4	1,673

(Continued in Palmyra quadrangle; see line 10.)

9. FROM SEC. 1, T. 60 N., R. 6 W., WEST INTO PALMYRA QUADRANGLE AT SEC. 18,
T. 60 N., R. 6 W. (by C. D. Craig in 1937)

1435 C W A 1935 (previously described) -----	40 01 21.18	91 30 31.16	.....
Center of rd. W. in line with tangent of U.S. Highway 61 S. -----	40 00 42.3	91 31 32.7	6,200

(For balance in Palmyra quadrangle, see line 8.)

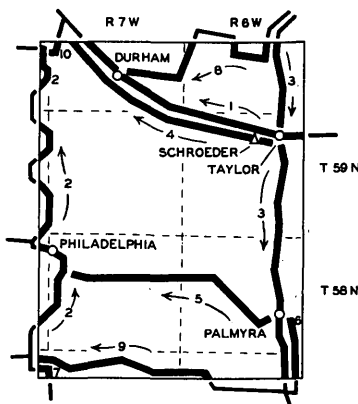
Rd. at lane E. -----	40 00 17.7	91 34 07.0	(2,635)
T. 60 N., R. 6 W., S. sixteenth cor. between secs. 8 and 9, T-rd. E. -----	40 00 29.3	91 34 40.8	2,874
Rd. at fence S. -----	40 00 37.1	91 35 17.5	2,966
T-rd. S. -----	40 00 42.1	91 35 35.6	1,494
T. 60 N., R. 6 W., in NE 1/4 sec. 7, 25 ft. N. and 29 ft. W. from crossroads, 14 ft. E. of 12-in. hickory tree, in SE. corner of yard of Dover Grange Hall, in concrete post; standard tablet stamped "5 F 1936" -----	40 00 51.33	91 36 09.90	2,830
Rd. at fence W. -----	40 00 25.0	91 36 26.9	2,972
Rd. fork to creek -----	40 00 06.9	91 36 31.8	1,877

(Continued in Palmyra quadrangle; see line 8.)

Magnetic declination 5° 38' E.

PALMYRA QUADRANGLE
(Latitude 39°45'-40°00'; longitude 91°30'-91°45')

Lewis and Marion Counties



1. FROM QUINCY QUADRANGLE NORTHWEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO CANTON QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Quincy quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Taylor, R.R. at sta. -----	39 56 17.2	91 31 16.6	(24,084)
Maywood, R.R. at sta. -----	39 57 10.9	91 35 54.8	22,332
T. 60 N., Rs. 6 and 7 W., approximate quarter cor. between secs. 31 and 36 -----	39 57 15.2	91 37 00.9	5,172
Durham, R.R. at sta. -----	39 58 29.7	91 39 56.0	15,580

(Continued in Canton quadrangle; see line 1.)

2. FROM NEWARK QUADRANGLE AT SEC. 25, T. 58 N., R. 8 W., NORTH AND WEST INTO NEWARK QUADRANGLE AT SEC. 13, T. 60 N., R. 8 W. (by C. L. Overstreet in 1934)

(Continued from Newark quadrangle; see line 2.)

Center of bridge -----	39 48 17.1	91 44 27.7	(4,463)
W. end of bridge -----	39 46 29.0	91 44 06.3	2,061
Rd. forks -----	39 48 25.0	91 43 47.4	1,529
T-rd. -----	39 48 34.6	91 43 38.3	1,199
Philadelphia, 1.2 mi. S. and 0.8 mi. E. from, in SW 1/4 sec. 18, T. 58 N., R. 7 W., 200 ft. NW. of dwelling of Will Augspurg, 25 ft. W. of rd., in concrete post; standard tablet stamped "74 C W A 1934" -----	39 49 18.59	91 43 28.90	4,517
Center of culvert -----	39 49 53.1	91 43 28.6	3,490
State Highway 56 at rd. S. -----	39 50 19.0	91 43 19.9	2,720
State Highway 56 at rd. N. -----	39 50 19.3	91 43 54.3	2,689
Philadelphia, State Highway 56 at street inter- section -----	39 50 23.1	91 44 20.1	2,046
Rd. forks -----	39 50 34.5	91 44 43.4	2,150
Center of culvert -----	39 51 11.9	91 44 58.2	3,961

(For balance in Newark quadrangle, see line 2.)

South Fabius River, S. end of bridge -----	39 52 44.3	91 44 44.3	(4,253)
County Route N at rd. E. -----	39 53 22.1	91 44 43.2	3,828

(For balance in Newark quadrangle, see line 2.)

T-rd. N. -----	39 54 56.6	91 44 59.5	(2,820)
T-rd. -----	39 54 53.5	91 44 17.5	3,287
T-rd. E. -----	39 55 51.6	91 44 26.0	5,919
W. end of bridge -----	39 56 08.6	91 44 29.7	1,748

(For balance in Newark quadrangle, see line 2.)

Center of culvert -----	39 56 13.3	91 44 58.4	(3,707)
T. 60 N., R. 8 W., cor. secs. 23, 24, 25, and 26, crossroads -----	39 56 35.1	91 44 58.4	2,210

Station	Latitude	Longitude	Distance
Ewing, 1.5 mi. W. and 0.5 mi. S. from, 315 ft. N. of quarter cor. between secs. 13 and 14, T. 60 N., R. 8 W., 48 ft. N. of T-rd. S., 75 ft. SW. of dwelling, in concrete post; standard tablet designated "7 B 1936" -----	39 59 56.45	91 44 57.65	8,235
(Continued in Newark quadrangle; see line 3.)			

3. FROM CANTON QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 INTO MONROE CITY QUADRANGLE (by J. P. Anderson in 1935)
(Continued from Canton quadrangle; see line 2.)

La Grange, 3 mi. S. of, 30 ft. N. and 48 ft. W. from crossroad, 125 ft. NW. of filling sta., in concrete post; standard tablet stamped "1436 C W A 1935" -----	39 59 25.28	91 31 35.19	(3,948)
Durgan Creek, center of bridge over -----	39 58 59.4	91 31 34.6	2,619
Junction of rd. E. -----	39 58 23.9	91 31 34.2	560
Junction of rd. E. -----	39 57 26.1	91 31 23.3	5,910
Junction of rd. E. -----	39 57 40.1	91 31 23.0	1,617
Highway at Lewis-Marion county line -----	39 56 47.2	91 31 37.0	5,461
Chicago, Burlington & Quincy R.R. at highway crossing -----	39 56 17.5	91 31 26.2	3,126
U.S.C. & G.S. standard disk stamped "C 15 1933" -----	39 56 16.48	91 31 14.13	942
Taylor, junction of U.S. Highway 24 -----	39 56 16.1	91 31 26.8	992
Taylor, 1.5 mi. S. of, 100 ft. N. and 100 ft. W. from junction of State Highway 6, in concrete post; standard tablet stamped "1437 1935" -----	39 55 03.64	91 31 27.34	7,334
Crossroad -----	39 54 36.1	91 31 30.3	2,795
South Fabius River, center of bridge over -----	39 53 57.9	91 31 30.4	3,874
Junction of rd. W. -----	39 53 50.3	91 31 29.8	771
Junction of rd. W. -----	39 53 18.3	91 31 29.0	3,238
Taylor, 5 mi. S. of, 27 ft. N. and 50 ft. W. from crossroad, in concrete post; standard tablet stamped "1436 1935" -----	39 52 00.18	91 31 31.83	7,909
Tps. 58 and 59 N., R. 6 W., approximate cor. secs. 1, 2, 35, and 36, crossroad -----	39 51 34.0	91 31 32.0	2,650
Crossroad -----	39 50 47.2	91 31 29.2	4,743
Junction of rd. W. -----	39 49 50.1	91 31 35.6	5,803
Junction of rd. E. -----	39 49 23.7	91 30 52.4	4,294
Palmyra, 1 mi. N. of, 450 ft. N. of crossing of Chicago, Burlington & Quincy R.R., 400 ft. S. of bridge over North River, in concrete post; standard tablet stamped "1439 1935" -----	39 49 05.93	91 30 51.45	1,804
Palmyra, highway at N. limits of -----	39 48 31.4	91 31 18.3	4,078
Palmyra, municipal water tower -----	39 47 32.74	91 31 27.98	5,986
Palmyra, about 0.3 mi. S. of S. limits of, along U.S. Highway 61, 45 ft. W. of junction of rd. E., 45 ft. E. of Chicago, Burlington & Quincy R.R., in concrete post; standard tablet stamped "1440 C W A 1935" -----	39 46 54.26	91 31 24.34	3,904
Junction of rd. E. on line between secs. 1 and 36, Tps. 57 and 58 N., R. 6 W. -----	39 46 47.1	91 31 23.8	725
Junction of rd. E. -----	39 45 32.5	91 31 05.9	7,677

(Continued in Monroe City quadrangle; see line 8.)

4. FROM SEC. 11, T. 59 N., R. 6 W., NORTHWEST ALONG STATE HIGHWAY 6 INTO CANTON QUADRANGLE (by J. P. Anderson in 1935)

1437 1935 (previously described) -----	39 55 03.64	91 31 27.34	.....
Junction of rd. S. -----	39 55 04.0	91 32 37.8	5,491
Schroeder triangulation sta.; U.S.C. & G.S. standard disk stamped "Schroeder 1931" -----	39 55 08.96	91 32 46.36	830
Crossroad on line between secs. 9 and 10, T. 59 N., R. 6 W. -----	39 55 24.0	91 33 42.3	4,621
Crossroad -----	39 55 26.5	91 34 16.4	2,669
Junction of rd. S. -----	39 55 28.9	91 34 45.5	2,280
Crossroad -----	39 55 48.2	91 35 24.5	3,613
Maywood, 1.5 mi. S. of, in SE 1/4 sec. 6, T. 59 N., R. 6 W., 60 ft. S. and 35 ft. W. from crossroad, in concrete post; standard tablet stamped "1444 C W A 1935" -----	39 56 08.94	91 35 58.78	3,402
Junction of County Route V -----	39 56 22.5	91 36 25.1	2,466
Crossroad -----	39 56 22.8	91 37 22.1	4,443
Crossroad -----	39 56 36.6	91 37 53.3	2,804
Highway at Lewis-Marion county line -----	39 56 49.6	91 38 00.9	1,450
Crossroad -----	39 57 15.7	91 38 16.2	2,899
U.S.C. & G.S. standard disk stamped "F 15 1933" -----	39 57 41.98	91 38 35.01	3,033
Junction of rd. S. -----	39 57 45.8	91 38 43.0	732
Junction of rd. S. -----	39 58 15.0	91 39 32.9	4,881
Durham, crossroad at limits of -----	39 58 24.9	91 39 49.8	1,661
U.S.C. & G.S. standard disk stamped "G 15 1933" -----	39 58 45.34	91 40 23.23	3,322
Crossroad -----	39 58 57.2	91 40 44.9	2,075
Junction of rd. S. -----	39 59 06.4	91 40 57.1	1,332
H 15 1933 (In Canton quadrangle; see line 5.) --	40 00 00.66	91 42 17.35	8,528

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
5. FROM PALMYRA WEST ALONG STATE HIGHWAY 56 TO SEC. 9, T. 58 N., R. 7 W., THENCE SOUTHWEST ALONG ROADS TO SEC. 18, T. 58 N., R. 7 W. (by S. T. Tudor in 1935)			
1440 C W A 1935 (previously described) -----	39 46 54.26	91 31 24.34	.....
Palmyra, municipal water tower (previously de- scribed) -----	39 47 32.74	91 31 27.98	3,902
Palmyra, junction of U.S. Highway 61 -----	39 47 39.2	91 31 22.8	770
Palmyra, spire of Catholic Church -----	39 47 48.14	91 31 17.49	992
Junction of rd. N. -----	39 47 39.4	91 32 05.1	3,821
Junction of rd. S. -----	39 47 39.9	91 32 38.8	2,625
Highway at fences E. and W. -----	39 48 05.6	91 33 33.4	4,997
Crossroad -----	39 48 34.7	91 33 54.2	3,356
Palmyra, 3.6 mi. NW. of junction of U.S. Highway 61, near E. sixteenth cor. between secs. 16 and 21, T. 58 N., R. 6 W., 10 ft. S. and 38 ft. W. from highway at fence E., in concrete post; standard tablet stamped "1537 E R A 1935" -----	39 49 05.44	91 34 25.62	3,963
Highway at fence S. -----	39 49 41.3	91 35 00.0	4,509
T. 58 N., R. 6 W., cor. secs. 7, 8, 17, and 18, highway at fences N. and S. -----	39 49 50.4	91 36 07.7	5,365
Junction of rd. N. -----	39 49 51.0	91 36 41.4	2,630
T. 58 N., Rs. 6 and 7 W., cor. secs. 7, 12, 13, and 18, 35 ft. N. and 65 ft. E. from highway at fences N. and S., in concrete post; standard tablet stamped "1541 E R A 1935" -----	39 49 51.32	91 37 07.54	2,040
T. 58 N., R. 7 W., cor. secs. 11, 12, 13, and 14, crossroad -----	39 49 50.6	91 38 15.3	5,287
Junction of rd. S. -----	39 49 50.9	91 38 49.0	2,630
T. 58 N., R. 7 W., cor. secs. 10, 11, 14, and 15, highway at fence S. -----	39 49 51.2	91 39 23.0	2,650
T. 58 N., R. 7 W., cor. secs. 9, 10, 15, and 16, 35 ft. N. and 70 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1542 E R A 1935" -----	39 49 52.28	91 40 31.31	5,330
T. 58 N., R. 7 W., cor. secs. 8, 9, 16, and 17, crossroads -----	39 49 52.2	91 41 39.2	5,300
T. 58 N., R. 7 W., cor. secs. 7, 8, 17, and 18, rd. at fence S. -----	39 49 53.1	91 42 46.4	5,241
T-rd. N. -----	39 49 53.2	91 43 20.1	2,630
74 C W A 1934 (previously described) -----	39 49 18.59	91 43 28.90	3,562

6. FROM PALMYRA SOUTH ALONG U.S. HIGHWAY 61 INTO MONROE CITY QUADRANGLE
(by C. D. Craig in 1936)

1440 C W A 1935 (previously described) -----	39 46 54.26	91 31 24.34	.....
Highway at hedge fence W. -----	39 46 21.1	91 31 22.4	3,357
Junction of rd. W. on S. side of South River -----	39 45 27.9	91 31 05.9	5,537
Highway at fence E. -----	39 45 05.6	91 31 03.1	2,270

(Continued in Monroe City quadrangle; see line 11.)

7. FROM NEWARK QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W., SOUTH INTO MONROE
CITY QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W. (by C. D. Craig in 1936)
(Continued from Newark quadrangle; see line 8.)

Rd. at fence N. -----	39 45 07.3	91 44 50.5	(2,590)
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(Continued in Monroe City quadrangle; see line 7.)

8. FROM CANTON QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO SEC. 14, T. 60 N.,
R. 6 W., THENCE WEST ALONG ROADS TO DURHAM (by C. D. Craig in 1936)
(Continued from Canton quadrangle; see line 9.)

Highway at fences E. and W. -----	39 59 51.2	91 31 34.0	(5,171)
1436 C W A 1935 (previously described) -----	39 59 25.28	91 31 35.19	2,624
T. 60 N., R. 6 W., cor. secs. 14, 15, 22, and 23, rd. at fence S. -----	39 59 24.6	91 32 25.0	3,880
T-rd. S. -----	39 59 24.7	91 32 42.5	1,360
Rd. at fences N. and S. -----	39 59 25.2	91 33 33.8	3,996
T. 60 N., R. 6 W., quarter cor. between secs. 16 and 21, 27 ft. N. and 22 ft. W. from cross- roads, in concrete post; standard tablet stamped "4 F 1936" -----	39 59 25.67	91 34 08.33	2,688
Junction of private rd. E. -----	39 59 51.7	91 34 07.6	2,635

(For balance in Canton quadrangle, see line 9.)

Rd. at fence W. -----	39 59 45.0	91 36 58.3	(3,023)
T. 60 N., R. 7 W., E. cor. secs. 13 and 24, rd. at fence W., 35 ft. S. of rd. at fence E. -----	39 59 25.5	91 36 58.6	1,975
T. 60 N., R. 7 W., quarter cor. between secs. 13 and 24, 25 ft. N. and 45 ft. W. from T-rd. W., in concrete post; standard tablet stamped "6 F 1936" -----	39 59 26.07	91 37 33.62	2,725
T-rd. E. at schoolhouse -----	39 58 59.6	91 37 09.4	3,278

Station	Latitude	Longitude	Distance
T-rd. W. -----	39 58 33.4	91 37 33.5	Feet 3,243
T. 60 N., R. 7 W., cor. secs. 23, 24, 25, and 26, rd. at lane N. -----	39 58 33.6	91 38 07.4	2,641
Rd. at fence S., 30 ft. W. of T-rd. N. -----	39 58 33.7	91 38 24.4	1,320
T. 60 N., R. 7 W., cor. secs. 22, 23, 26, and 27, rd. at fences N. and S. -----	39 58 34.2	91 39 16.0	4,018
Durham, crossroads at E. limits of -----	39 58 34.4	91 39 49.5	2,610
G 15 1933 (previously described) -----	39 58 45.34	91 40 23.23	2,848

9. FROM MONROE CITY QUADRANGLE AT SEC. 9, T. 57 N., R. 6 W., WEST INTO
NEWARK QUADRANGLE AT SEC. 1, T. 57 N., R. 8 W. (by C. D. Craig
in 1936)

(Continued from Monroe City quadrangle; see line 11.)

T-rd. S. -----	39 45 03.7	91 35 01.2	(3,755)
Woodland, Chicago, Burlington & Quincy R.R. at rd. crossing -----	39 45 09.4	91 35 37.0	2,858
T-rd. S. -----	39 45 10.2	91 36 08.3	2,440
Woodland, 1.3 mi. W. of, in NE 1/4 sec. 12, T. 57 N., R. 7 W., 10 ft. N. and 10 ft. W. from intersection of rd. tangents S.-W., 9 ft. S. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 85 C 1936" -	39 45 26.75	91 36 57.28	4,180
T-rd. S. -----	39 45 29.3	91 37 30.3	2,591
T-rd. N. -----	39 45 29.4	91 36 21.9	4,030
T-rd. S., 115 ft. E. of rd. at fence N. at W. sixteenth cor. between secs. 2 and 11, T. 57 N., R. 7 W. -----	39 45 30.5	91 38 54.3	2,535
Junction of private drive E. -----	39 45 55.9	91 39 01.5	2,626
T. 57 N., R. 7 W., in S 1/2 sec. 3, 33 ft. S. of rd. at fence S., 17 ft. N. and 2 ft. E. from NW corner of farmyard of Frank Courtney, in con- crete post; standard tablet stamped "T T 86 C 1936" -----	39 45 45.67	91 39 36.95	2,958
South Fork of North River, center of bridge over- Rd. at fence S. and hedge fence H. -----	39 45 44.1	91 40 08.4	2,465
Rd. at fences N. and S. -----	39 45 41.1	91 40 36.0	2,172
T-rd. N. -----	39 45 30.7	91 41 26.1	4,205
T. 57 N., R. 7 W., near quarter cor. between secs. 5 and 8, 134 ft. N. and 118 ft. W. from T-rd. S., 15 ft. S. of SE. corner of White Franklin School, in concrete post; stan- dard tablet stamped "T T 87 C 1936" -----	39 45 30.9	91 42 02.3	2,670
Rd. at fences N. and S. -----	39 45 32.43	91 42 20.63	1,441
T-rd. E. -----	39 45 31.8	91 43 26.2	5,125
T-rd. S. -----	39 45 36.5	91 44 03.8	2,972
Rd. at fences N. and S. -----	39 46 20.6	91 43 57.7	4,485
	39 46 25.1	91 44 31.8	2,707

(Continued in Newark quadrangle; see line 9.)

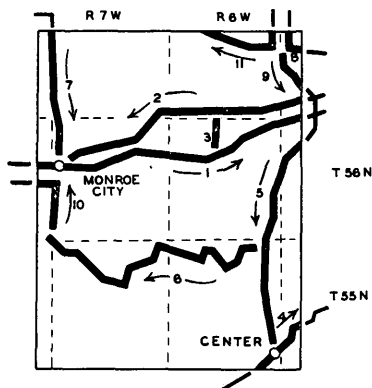
10. FROM CANTON QUADRANGLE AT SEC. 13, T. 60 N., R. 8 W., SOUTHWEST TO
SEC. 14, T. 60 N., R. 8 W. (by C. D. Craig in 1936)
(Continued from Canton quadrangle; see line 8.)

Rd. at fence N. -----	39 59 59.0	91 44 23.8	(2,867)
Rd. at fences N. and S. -----	39 59 55.3	91 44 40.7	1,367
7 B 1936 (previously described) -----	39 59 56.45	91 44 57.65	1,325

Magnetic declination 5° 27' E.

MONROE CITY QUADRANGLE
(Latitude 39°30'-39°45'; longitude 91°30'-91°45')

Marion, Monroe, and Ralls Counties



1. FROM HUNNEWELL QUADRANGLE EAST ALONG WABASH RAILWAY INTO HANNIBAL QUADRANGLE (by George T. Hawkins in 1901)
(Continued from Hunnewell quadrangle; see line 1.)

Station	Latitude			Longitude			Distance
	°	'	"	°	'	"	Feet
Monroe City, R.R. at sta. -----	39	39	08.3	91	44	13.4	(20,420)
T. 56 N., R. 7 W., cor. secs. 8, 9, 16, and 17 -----*	39	39	26.2	91	41	47.6	11,560
T. 56 N., R. 7 W., cor. secs. 9, 10, 15, and 16 -----*	39	39	25.6	91	40	40.3	5,279
T. 56 N., Rs. 6 and 7 W., quarter cor. between							
secs. 7 and 12 -----*	39	39	49.0	91	37	18.5	15,962
Huntington, R.R. at rd. crossing at -----	39	39	40.0	91	35	55.2	6,601
T. 56 N., R. 6 W., quarter cor. between secs. 3							
and 10 -----	39	40	14.2	91	33	24.1	12,302
Rensselaer, R.R. at sta. -----	39	40	22.4	91	33	14.8	1,109
R.R. at line between secs. 1 and 2, T. 56 N., R.							
6 W. -----	39	40	47.1	91	31	43.5	7,559

(Continued in Hannibal quadrangle; see line 1.)

2. FROM HANNIBAL QUADRANGLE WEST ALONG U.S. HIGHWAY 36 TO MONROE CITY
(by W. V. Kennedy in 1935)
(Continued from Hannibal quadrangle; see line 2.)

T. 57 N., Rs. 5 and 6 W., approximate quarter							
cor. between secs. 31 and 36, junction of							
U.S. Highway 24 -----	39	41	33.0	91	30	36.3	(2,945)
Wabash Ry. at fences N. and S. on line between							
secs. 31 and 36, T. 57 N., Rs. 5 and 6 W. -----	39	41	08.6	91	30	36.7	2,468
Junction of rd. S. -----	39	41	33.1	91	31	09.9	3,593
T. 57 N., R. 6 W., quarter cor. between secs. 35							
and 36, highway at hedge fence S. -----	39	41	33.2	91	31	43.8	2,650
Junction of rd. S. -----	39	41	33.2	91	32	17.1	2,610
T. 57 N., R. 6 W., quarter cor. between secs. 34							
and 35, highway at fence N. -----	39	41	33.2	91	32	51.6	2,696
T. 57 N., R. 6 W., center sec. 34, 42 ft. S. and							
75 ft. W. from junction of rd. S., 3 ft. N. and							
50 ft. W. from W. head wall of concrete cul-							
vert, in concrete post; standard tablet stamped							
"1431 C W A 1935" -----	39	41	32.83	91	33	26.48	2,727
Highway at fences N. and S. -----	39	41	33.5	91	33	58.7	2,520
Highway on curve at rd. S. produced -----	39	41	21.6	91	34	16.0	1,806
Highway at fences E. and W. on Marion-Ralls							
county line, 188 ft. N. and 192 ft. E. from							
center of bridge over South River -----	39	41	07.2	91	34	41.4	2,439
Highway at fence S. -----	39	41	05.2	91	35	05.8	1,919
T. 57 N., R. 6 W., S. quarter cor. sec. 32,							
highway at fence N., 42 ft. W. of highway at							
fence S. at N. quarter cor. sec. 5, T. 56 N.,							
R. 6 W. -----	39	41	07.8	91	35	39.7	2,669
T. 56 N., R. 6 W., N. cor. secs. 5 and 6, 35 ft.							
S. and 60 ft. W. from junction of rd. S.,							
35 ft. S. and 35 ft. E. from highway at hedge							
fence N. at S. cor. secs. 31 and 32, T. 57 N.,							
R. 6 W., in concrete post; standard tablet							
stamped "1432 C W A 1935" -----	39	41	07.55	91	36	13.08	2,611

*Results not of third-order accuracy.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 56 N., R. 6 W., N. quarter cor. sec. 6, highway at fence S., 180 ft. E. of highway at fence N. at S. quarter cor. sec. 31, T. 57 N., R. 6 W. -----	39 41 08.1	91 36 45.3	2,520
Junction of rd. S. -----	39 41 08.4	91 37 26.0	3,160
Junction of rd. N., 380 ft. E. of junction of rd. S. -----	39 41 08.6	91 37 59.4	2,614
T. 57 N., R. 7 W., S. cor. secs. 35 and 36, rd. at fence N., 21 ft. W. of crossroads, 240 ft. W. of rd. at fence S. at N. cor. secs. 1 and 2, T. 56 N., R. 7 W. -----	39 41 06.8	91 38 25.6	2,054
Stone at hedge fence corner from N.-E., 15 ft. E. of abandoned N.-S. rd. -----	39 40 47.8	91 36 58.1	3,316
Highway at Chicago, Burlington & Quincy R.R. underpass -----	39 40 29.6	91 39 23.5	2,705
Monroe City, 4 mi. NE. of, E. sixteenth cor. be- tween secs. 3 and 10, T. 56 N., R. 7 W., 25 ft. N. and 71 ft. E. from junction of rd. E., 25 ft. N. and 31 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing, in concrete post; standard tablet stamped "1433 E R A 1935" -----	39 40 17.59	91 39 47.44	2,234
Junction of rd. N. -----	39 39 56.9	91 40 24.1	3,433
T. 56 N., R. 7 W., quarter cor. between secs. 9 and 10, T-fence W. -----	39 39 51.7	91 40 40.6	1,490
Highway at fence N. and hedge fence S. -----	39 39 38.4	91 41 14.5	2,966
Crossroad, 700 ft. N. of T-rd. W. and abandoned rd. E. at cor. secs. 8, 9, 16, and 17, T. 56 N., R. 7 W. -----	39 39 32.9	91 41 48.2	2,700
Highway at fence S., 114 ft. N. of dim rd. E. at fences N. and S. -----	39 39 26.2	91 42 22.1	2,736
Crossroad, 63 ft. N. of T-rd. W. at cor. secs. 7, 8, 17, and 18, T. 56 N., R. 7 W. -----	39 39 26.7	91 42 54.4	2,521
Junction of rd. S., 120 ft. W. of highway at fences N. and S. -----	39 39 26.3	91 43 29.4	2,749
Monroe City, junction of U.S. Highway 24 -----	39 39 26.4	91 44 04.0	2,714
Monroe City, main track of Chicago, Burlington & Quincy R.R. at crossing of U.S. Highway 24 -----	39 39 09.2	91 44 04.2	1,739
Monroe City, main track of Wabash Ry. at semaphore in front of sta. -----	39 38 49.1	91 43 52.0	2,245
Monroe City, at S. limits of, 126 ft. N. and 39 ft. E. from U.S. Highway 24 at rd. E., in concrete post; standard tablet stamped "70 C W A 1934" -----	39 38 36.28	91 44 03.89	1,438

3. FROM SEC. 5, T. 56 N., R. 6 W., SOUTH TO SEC. 8, T. 56 N., R. 6 W.
(by W. V. Kennedy in 1935)

1432 C W A 1935 (previously described) -----	39 41 07.55	91 36 13.08	.....
Rd. at fences E. and W. -----	39 40 40.4	91 36 12.2	2,749
T. 56 N., R. 6 W., cor. secs. 5, 6, 7, and 8, rd. at fences E. and W. -----	39 40 14.1	91 36 12.5	2,660
T-rd. N. -----	39 39 47.9	91 36 12.3	2,647
Huntington, Wabash Ry. at rd. crossing at -----	39 39 40.0	91 35 55.2	1,557
T. 56 N., R. 6 W., in SW 1/4 sec. 8, in NE. cor- ner of stone foundation of porch; standard tablet stamped "727.5 Q" -----	39 39 36.88	91 35 54.73	122

4. FROM FARBER QUADRANGLE AT SEC. 35, T. 55 N., R. 6 W., NORTHEAST ALONG
ROADS AND STATE HIGHWAY 19 INTO HANNIBAL QUADRANGLE (by W. V. Kennedy
in 1935)

(Continued from Farber quadrangle; see line 4.)

T. 55 N., R. 6 W., quarter cor. between secs. 35 and 36, County Route P at crossroad -----	39 30 14.5	91 31 44.0	(2,682)
T. 55 N., R. 6 W., center sec. 36, rd. at fence N. -----	39 30 13.7	91 31 10.0	2,659
T. 55 N., R. 6 W., E. sixteenth cor. sec. 36, stone, 28 ft. N. of rd. at hedge fence N. -----	39 30 13.7	91 30 53.3	1,310
T. 55 N., R. 6 W., E. cor. secs. 25 and 36, T-rd. W., 209 ft. N. of T-rd. E. -----	39 30 39.8	91 30 36.1	2,963
T. 55 N., R. 6 W., E. quarter cor. sec. 25, rd. at hedge fence W., 100 ft. N. of rd. at fence E. at W. quarter cor. sec. 30, T. 55 N., R. 5 W. -----	39 31 06.0	91 30 36.0	2,655
T. 55 N., R. 5 W., center of NE 1/4 sec. 30, corner of hedge fences N., S., and E., 134 ft. S. of State Highway 19 at hedge fences N. and S. -----	39 31 17.5	91 30 05.7	2,642

(Continued in Hannibal quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

5. FROM HANNIBAL QUADRANGLE AT SEC. 6, T. 56 N., R. 5 W., SOUTH ALONG ROADS TO SEC. 2, T. 55 N., R. 6 W., THENCE SOUTH ALONG COUNTY ROUTE H TO CENTER (by C. D. Craig in 1935)
(Continued from Hannibal quadrangle; see line 4.)

T. 56 N., R. 5 W., center sec. 6, rd. at fences E. and W. -----	39 40 41.6	91 30 02.8	(2,630)
T. 56 N., R. 5 W., quarter cor. between secs. 6 and 7, T-rd. N. -----	39 40 16.0	91 30 02.8	2,592
T. 56 N., R. 6 W., E. sixteenth cor. between secs. 1 and 12, T-rd. S. -----	39 40 14.5	91 30 53.3	3,952
T. 56 N., R. 6 W., E. sixteenth cor. sec. 12, 10 ft. S. of rd. corner from N.-W., 10 ft. S. and 18 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 1 C 1935" --	39 39 48.31	91 30 53.47	2,650
T. 56 N., R. 6 W., E. sixteenth cor. between secs. 12 and 13, fence corner -----	39 39 22.5	91 30 53.8	2,610
Rd. at fence N. -----	39 38 39.3	91 30 30.3	4,741
Crossroads (rd. N. abandoned) -----	39 38 36.9	91 31 09.5	3,079
Rd. at fence W. -----	39 38 02.8	91 31 10.6	3,457
Spalding, 0.7 mi. N. of, 406 ft. S. of quarter cor. between secs. 24 and 25, T. 56 N., R. 6 W., 44 ft. S. and 110 ft. W. from SW. corner of Salt Lick Church, in concrete post; standard tablet stamped "T T 2 C 1935" -----	39 37 34.80	91 31 10.92	2,831
Spalding, rd. forks at -----	39 37 07.1	91 31 34.8	3,368
Rd. at fence E. -----	39 36 45.1	91 31 26.0	2,285
Rd. at fence E. -----	39 36 20.1	91 31 31.8	2,546
T-rd. N. -----	39 35 54.3	91 31 33.0	2,614
Salt River, center of bridge over -----	39 35 37.0	91 32 04.2	3,005
Center, 5.8 mi. N. of, along County Route H, in NW 1/4 sec. 2, T. 55 N., R. 6 W., 64 ft. S. and 36 ft. E. from crossroads, 46 ft. N. and 4 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 3 C 1935" -----	39 35 03.36	91 32 20.59	3,639
Crossroad -----	39 34 37.5	91 32 17.6	2,632
Highway at fence W. -----	39 34 11.6	91 32 18.1	2,619
Highway at fence E. -----	39 33 45.2	91 32 19.0	2,673
Crossroad on line between secs. 11 and 14, T. 55 N., R. 6 W. -----	39 33 18.0	91 32 17.4	2,748
Highway at fence W. -----	39 32 52.9	91 32 17.7	2,546
Center, 2.6 mi. N. of, near E. sixteenth cor. between secs. 14 and 23, T. 55 N., R. 6 W., 15 ft. N. of highway at produced corner from W.-S., 3 ft. S. and 25 ft. W. from SE. corner of yard, in concrete post; standard tablet stamped "T T 4 C 1935" -----	39 32 26.57	91 32 00.65	2,979
Abandoned crossroad -----	39 32 00.1	91 31 56.3	2,700
Crossroad, 350 ft. W. of cor. secs. 23, 24, 25, and 26, T. 55 N., R. 6 W. -----	39 31 34.0	91 31 48.2	2,712
T. 55 N., R. 6 W., quarter cor. between secs. 25 and 26, junction of rd. E. (? W.) -----	39 31 07.5	91 31 44.1	2,704
Center, crossroad at cor. secs. 25, 26, 35, and 36, T. 55 N., R. 6 W. -----	39 30 41.4	91 31 44.3	2,644
Crossroad (previously described) -----	39 30 14.5	91 31 44.0	2,715

6. FROM SEC. 2, T. 55 N., R. 6 W., WEST TO SEC. 36, T. 56 N., R. 8 W.
(by C. D. Craig in 1935)

T T 3 C 1935 (previously described) -----	39 35 03.36	91 32 20.59	.....
Rd. at fence N. -----	39 35 04.6	91 32 51.5	2,422
Rd. corner from E.-S. -----	39 35 04.4	91 33 25.7	2,680
T. 55 N., R. 6 W., S. sixteenth cor. sec. 3, crossroads -----	39 34 25.0	91 33 25.4	3,987
Salt River, center of bridge over -----	39 34 25.5	91 34 16.0	3,960
T. 55 N., R. 6 W., center sec. 4, T-rd. N. -----	39 34 39.0	91 34 32.4	1,882
Center, 5.8 mi. N. and 3 mi. W. from, in NE 1/4 sec. 4, T. 55 N., R. 6 W., 110 ft. S. and 19 ft. E. from T-rd. W., 2 ft. S. and 4 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 5 C 1935" -----	39 35 04.22	91 34 31.75	2,552
Rd. at fences N. and S. -----	39 35 06.2	91 35 05.6	2,656
T-rd. E. -----	39 35 06.0	91 35 47.7	3,297
Rd. corner from S.-W. -----	39 34 40.0	91 35 39.8	2,709
Rd. corner from E.-N. -----	39 34 40.7	91 36 30.6	3,982
T. 55 N., R. 6 and 7 W., 1 mi. N. of cor. secs. 1, 6, 7, and 12, 7 ft. E. of stone, 25 ft. E. of T-rd. W., 9 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 6 C 1935" -----	39 35 07.37	91 37 06.49	3,891
Rd. corner from E.-S. -----	39 35 06.4	91 38 14.0	5,286
T-rd. W. -----	39 34 54.0	91 38 14.4	1,255
Rd. corner from E.-S. -----	39 34 53.5	91 38 48.4	2,665

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. S., 410 ft. E. of rd. corner from E.-N. ---	39 34 41.6	91 39 16.6	2,519
T. 55 N., R. 7 W., 0.1 mi. E. of cor. secs. 2, 3, 10, and 11, 25 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T 7 C 1935" ---	39 34 15.17	91 39 17.09	2,671
T. 55 N., R. 7 W., quarter cor. between secs. 3 and 10, crossroads ---	39 34 15.8	91 39 56.0	3,051
Rd. at fences E. and W. along S. side of abandoned rd. W. ---	39 33 49.7	91 39 56.2	2,645
SE. corner of small dwelling ---	39 33 25.6	91 40 59.1	5,496
T-rd. W. ---	39 33 51.0	91 41 43.4	4,311
T. 55 N., R. 7 W., center sec. 8, 9 ft. S. of SE. corner of yard, 19 ft. N. of rd., in concrete post; standard tablet stamped "T 8 C 1935" ---	39 33 51.91	91 42 22.69	3,097
T. 55 N., R. 7 W., cor. secs. 5, 6, 7, and 8, rd. at fences E. and W. ---	39 34 18.1	91 42 43.4	3,109
T-rd. W. at fence E. ---	39 34 44.1	91 42 43.2	2,634
T-rd. W. ---	39 34 45.3	91 43 33.6	3,951
T. 55 N., R. 7 W., 0.5 mi. N. of W. quarter cor. sec. 6, 25 ft. S. and 25 ft. E. from T-rd. N., in concrete post; standard tablet stamped "T 9 C 1935" ---	39 35 08.55	91 43 54.17	2,850
T-rd. S. ---	39 35 09.4	91 44 13.5	1,518
T-rd. E. ---	39 35 22.7	91 44 55.8	3,576
U.S. Highway 24 at rd. S. ---	39 35 59.0	91 44 55.2	3,680
Monroe City, 3 mi. S. of, along U.S. Highway 24, in SE 1/4 sec. 36, T. 56 N., R. 8 W., 50 ft. S. of highway, 47 ft. W. of rd., in concrete post; standard tablet stamped "69 C W A 1934" ---	39 36 11.48	91 44 26.24	2,592

7. FROM PALMYRA QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W., SOUTH TO MONROE CITY (by C. D. Craig in 1935)
(Continued from Palmyra quadrangle; see line 7.)

Center of bridge over creek ---	39 44 52.2	91 44 23.0	(2,635)
T-rd. E. ---	39 44 19.5	91 44 16.5	3,350
Monroe City, about 6 mi. N. of, E. sixteenth cor. between secs. 13 and 24, T. 57 N., R. 8 W., 18 ft. N. and 40 ft. W. from rd. corner from N.-W., 2 ft. S. and 16 ft. W. from fence corner, in concrete post; standard tablet stamped "T 72 C W A 1934" ---	39 43 48.97	91 44 17.98	3,090
Rd. at fence W. ---	39 43 23.6	91 44 35.0	2,894
T. 57 N., R. 8 W., quarter cor. between secs. 24 and 25, T-rd. W. and lane E. ---	39 42 56.7	91 44 35.6	2,715
T-rd. W. ---	39 42 24.2	91 44 36.2	3,290
Rd. at fence W. ---	39 41 51.2	91 44 36.6	3,342
T. 57 N., R. 8 W., S. quarter cor. sec. 36, T-rd. N. ---	39 41 12.3	91 44 37.0	3,941
Monroe City, 2 mi. N. of, cor. Tps. 56 and 57 N., Rs. 7 and 8 W., 24 ft. N. of T-rd. S., in concrete post; standard tablet stamped "T 71 C W A 1934" ---	39 41 12.11	91 44 03.47	2,625
T-rd. W., 35 ft. E. of E. cor. secs. 1 and 12, T. 56 N., R. 6 W. ---	39 40 19.5	91 44 04.2	5,320
70 C W A 1934 (previously described) ---	39 36 38.28	91 44 03.89	10,249

8. FROM PALMYRA QUADRANGLE SOUTH AND EAST ALONG U.S. HIGHWAY 61 INTO HANNIBAL QUADRANGLE (by J. P. Anderson in 1935)
(Continued from Palmyra quadrangle; see line 3.)

Palmyra, 3 mi. S. of, along U.S. Highway 61, cor. secs. 7, 12, 13, and 18, T. 57 N., Rs. 5 and 6 W., 63 ft. S. and 64 ft. E. from junction of U.S. Highway 24, in concrete post; standard tablet stamped "441 C W A 1935"* ---	39 44 37.15	91 30 41.66	(5,912)
Junction of rd. S. ---	39 44 37.3	91 30 12.2	2,299

(Continued in Hannibal quadrangle; see line 5.)

9. FROM SEC. 18, T. 57 N., R. 5 W., SOUTH INTO HANNIBAL QUADRANGLE AT SEC. 19, T. 57 N., R. 5 W. (by S. T. Tudor in 1935)

441 C W A 1935 (previously described) ---	39 44 37.15	91 30 41.66	.....
Rd. corner from E.-S. at lane W. on line between secs. 18 and 19, T. 57 N., R. 5 W. ---	39 43 44.5	91 30 15.8	5,698
T. 57 N., R. 5 W., W. sixteenth cor. sec. 19, T-rd. N. ---	39 43 18.2	91 30 16.2	2,663

(Continued in Hannibal quadrangle; see line 6.)

* It was reported by A. R. Friend, July 25, 1936, that this monument had been covered by 2 ft. of earth.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
10. FROM SEC. 36, T. 56 N., R. 8 W., NORTH ALONG U.S. HIGHWAY 24 TO MONROE CITY, THENCE WEST ALONG U.S. HIGHWAY 36 INTO HUNNEWELL QUADRANGLE (by S. T. Tudor in 1935)			
69 C W A 1934 (previously described) -----	39 36 11.48	91 44 26.24	.....
T. 56 N., R. 8 W., E. cor. secs. 25 and 36, junction of rd. W. -----	39 36 48.8	91 44 05.6	4,101
T. 56 N., R. 8 W., E. cor. secs. 24 and 25, high- way at fence W. -----	39 37 41.3	91 44 05.0	5,320
70 C W A 1934 (previously described) -----	39 38 38.28	91 44 03.89	5,762
Monroe City, Chicago, Burlington & Quincy R.R. at sta. -----	39 39 08.3	91 44 13.4	3,131
Monroe City, municipal water tower at Second and Vine Streets -----	39 39 15.6	91 44 06.9	895
Highway at fence N. -----	39 39 27.2	91 44 33.3	2,378

(Continued in Hunnewell quadrangle; see line 5.)

11. FROM PALMYRA QUADRANGLE SOUTH ALONG U.S. HIGHWAY 61 TO SEC. 13, T. 57 N., R. 6 W., THENCE WEST ALONG ROADS INTO PALMYRA QUADRANGLE AT SEC. 9, T. 57 N., R. 6 W. (by C. D. Craig in 1936)

(Continued from Palmyra quadrangle; see line 6.)

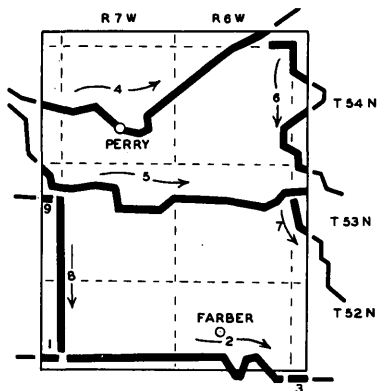
Palmyra, 3 mi. S. of, along U.S. Highway 61, 100 ft. S. of junction of U.S. Highway 24, 55 ft. N. and 2 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing, in concrete post; standard tablet stamped "T T 83 C 1936" -	39 44 36.93	91 30 45.81	(3,196)
T-rd. S. -----	39 44 36.6	91 31 23.7	2,963
Crossroads -----	39 44 36.8	91 32 14.2	3,940
T. 57 N., R. 6 W., cor. secs. 10, 11, 14, and 15, rd. at hedge fence S. -----	39 44 36.7	91 32 48.5	2,680
T-rd. N. -----	39 44 36.9	91 33 21.8	2,603
Woodland, 2 mi. SE. of, near cor. secs. 9, 10, 15, and 16, T. 57 N., R. 6 W., 100 (? 20) ft. S. and 22 (? 90) ft. E. from T-rd. S., 36 ft. E. of 30-in. post-oak tree, in concrete post; standard tablet stamped "T T 84 C 1936" -----	39 44 37.54	91 33 53.71	2,493
South River, center of bridge over -----	39 44 50.0	91 34 16.5	2,185

(Continued in Palmyra quadrangle; see line 9.)

Magnetic declination 5° 40' E.

FARBER QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°30'-91°45')

Audrain, Monroe, and Ralls Counties



1. FROM FLORIDA QUADRANGLE AT SEC. 25, T. 52 N., R. 8 W., EAST ABOUT 1 MILE (by S. H. Moyers in 1926)

(Continued from Florida quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 52 N., R. 8 W., quarter cor. between secs. 25 and 36, rd. at fence N. and S. -----	39 15 06.2	91 44 58.1	(2,640)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Worcester, 1.5 mi. S. and 0.8 mi. E. from, in SE. cor. sec. 25, T. 52 N., R. 6 W., 20 ft. N. and 23 ft. W. from T-rd. W., 55 ft. S. and 23 ft. W. from T-rd. E., in concrete post; standard tablet stamped "T T Sta No 23 M 1926"-	39 15 06.98	91 44 24.12	2,674

2. FROM SEC. 30, T. 52 N., R. 7 W., EAST TO SEC. 25, T. 52 N., R. 6 W., INCLUDING THAT PART OF THE LINE IN WELLSVILLE QUADRANGLE (by J. L. Sanders in 1927)*

T T Sta No 23 M 1926 (previously described) -----	39 15 06.98	91 44 24.12	.....
T. 52 N., R. 7 W., cor. secs. 29, 30, 31, and 32, crossroads -----	39 15 07.0	91 43 16.2	5,346
T. 52 N., R. 7 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 15 06.8	91 42 07.6	5,390
Laddonia, 0.5 mi. N., thence 2 mi. W. from, cor. secs. 27, 28, 33, and 34, T. 52 N., R. 7 W., 24 ft. S. and 30 ft. W. from crossroads, 50 ft. N. of dwelling of John Braden, in concrete post; standard tablet stamped "T T Sta No 1 S 1927" -----	39 15 06.14	91 40 59.68	5,353
T. 52 N., R. 7 W., cor. secs. 26, 27, 34, and 35, crossroads -----	39 15 06.0	91 39 50.9	5,404
T. 52 N., R. 7 W., cor. secs. 25, 26, 35, and 36, crossroads -----	39 15 05.6	91 38 42.2	5,400
Laddonia, 0.5 mi. N., thence 1 mi. E. from, cor. secs. 25, 30, 31, and 36, T. 52 N., R. 6 and 7 W., 18 ft. N. and 36 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T Sta No 2 S 1927" -----	39 15 05.35	91 37 34.40	5,337
T. 52 N., R. 6 W., cor. secs. 29, 30, 31, and 32, crossroads -----	39 15 02.6	91 36 35.6	4,634
T. 52 N., R. 6 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 15 00.6	91 35 27.9	5,330
T. 52 N., R. 6 W., near E. sixteenth cor. between secs. 28 and 33, 1.5 mi. S. of Farber, E. of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 3 S 1927" -----	39 14 59.50	91 34 37.00	4,005
T-rd. N. -----	39 15 12.4	91 34 20.2	1,856
Hickory Creek, center of bridge over -----	39 15 10.7	91 33 18.8	4,830
T-rd. E. -----	39 14 57.2	91 32 56.0	2,255
T. 52 N., R. 6 W., cor. secs. 25, 26, 35, and 36, T-rd. N. -----	39 14 55.2	91 32 04.5	3,986
Farber, 3.2 mi. E., thence 1.5 mi. S. from, E. cor. secs. 25 and 36, T. 52 N., R. 6 W., 20 ft. S. and 20 ft. W. from T-rd. W., inside fence, in concrete post; standard tablet stamped "T T Sta No 4 S 1927" -----	39 14 53.32	91 30 58.12	5,298

3. FROM SEC. 25, T. 52 N., R. 6 W., EAST INTO BELLFLOWER QUADRANGLE AT SEC. 32, T. 52 N., R. 5 W. (by C. R. Fisher in 1928)**

T T Sta No 4 S 1927 (previously described) -----	39 14 53.32	91 30 58.12	.....
Crossroads -----	39 14 50.2	91 30 01.1	4,493

(Continued in Vandalia quadrangle; see line 1.)

4. FROM FLORIDA QUADRANGLE EAST ALONG STATE HIGHWAY 26 TO SEC. 25, T. 54 N., R. 7 W., THENCE NORTHEAST ALONG STATE HIGHWAY 19 TO SEC. 35, T. 55 N., R. 6 W., THENCE NORTHEAST ABOUT 1 MILE INTO MONROE CITY QUADRANGLE (by W. V. Kennedy in 1934-35)

(Continued from Florida quadrangle; see line 3.)

Highway on curve at fences N. and S. -----	39 27 18.7	91 44 55.7	(1,311)
T. 54 N., R. 7 and 8 W., quarter cor. between secs. 19 and 24, stone in fence corner, 40 ft. S. of highway at field entrances N. and S. -----	39 26 53.4	91 44 14.0	4,148
Highway at fences N. and S. -----	39 26 41.3	91 43 28.7	3,762
T. 54 N., R. 7 W., center of SE 1/4 sec. 19, 50 ft. N. and 47 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "1406 C W A 1934" -----	39 26 41.64	91 43 12.99	1,229
Highway at fence N. on Monroe-Ralls county line -	39 26 41.0	91 42 54.7	1,438
Junction of rd. E. -----	39 26 30.9	91 42 10.2	3,640
Highway at fence S. on line between secs. 28 and 29, T. 54 N., R. 7 W. -----	39 26 22.6	91 41 51.7	1,671
Junction of rd. S. -----	39 26 06.5	91 41 16.9	3,179
Perry, at W. edge of, center of bridge over Lick Creek -----	39 25 53.0	91 40 35.7	3,516
Perry, near E. limits of, 83 ft. N. and 158 ft. W. from N.-S. crossroads, 3 ft. N. of picket fence around park, in concrete post; standard tablet stamped "1406 C W A 1934" -----	39 25 49.00	91 40 03.34	2,568

*Line 4 of Wellsville quadrangle includes a portion of this line (see Bull. 916-C).

**Published also as line 6 of the Wellsville quadrangle (see Bull. 916-C).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 54 N., R. 7 W., S. sixteenth cor. between secs. 26 and 27, highway at hedge fence S. ----	39 25 46.0	91 39 34.3	2,320
Highway at hedge fence S. -----	39 25 45.6	91 39 00.3	2,650
T. 54 N., R. 7 W., S. sixteenth cor. between secs. 25 and 26, highway at hedge fence N. ----	39 25 45.5	91 38 27.4	2,580
Highway at fence E. and abandoned rd. W. -----	39 25 58.5	91 38 09.8	1,909
T. 54 N., R. 7 W., W. sixteenth cor. between secs. 24 and 25, 0.8 mi. N. of junction of State Highway 26, 91 ft. N. and 43 ft. E. from E.-W. crossroad, 2 ft. E. of fence, in concrete post; standard tablet stamped "1420 C W A 1934" -----	39 26 25.89	91 38 08.43	2,772
T. 54 N., R. 7 W., center sec. 24, corner of hedge fences, 19 ft. N. of highway at hedge fence N. -----	39 26 51.4	91 37 51.5	2,905
T. 54 N., Rs. 6 and 7 W., approximate cor. secs. 13, 18, 19, and 24, rd. at hedge fences N. and S., 377 ft. N. of highway at hedge fences N. and S. -----	39 27 17.2	91 37 16.9	3,765
Junction of rd. E. -----	39 27 29.8	91 36 51.2	2,387
Crossroad -----	39 27 53.3	91 36 15.9	3,583
Highway at fences E. and W. on line between secs. 8 and 17, T. 54 N., R. 6 W. -----	39 28 09.0	91 35 50.0	2,639
T. 54 N., R. 6 W., quarter cor. between secs. 8 and 9, 235 ft. N. and 48 ft. W. from cross- roads, 48 ft. W. of N.-S. crossroad, 3 ft. E. of transmission-line pole, in concrete post; standard tablet stamped "1421 C W A 1934" -----	39 28 36.57	91 35 07.67	4,341
T. 54 N., R. 6 W., quarter cor. between secs. 4 and 9, corner of hedge fences, 195 ft. N. of highway at hedge fences N. and S. -----	39 29 00.1	91 34 33.2	3,606
Highway at hedge fences N. and S. -----	39 29 09.4	91 34 16.0	1,639
T. 54 N., R. 6 W., quarter cor. between secs. 3 and 4, stone 8 ft. S. and 4 ft. W. from fence corner -----	39 29 25.9	91 33 58.9	2,142
Highway at hedge fence S. -----	39 29 42.2	91 33 24.8	3,139
T. 54 N., R. 6 W., N. cor. secs. 2 and 3, highway at hedge fence S. -----	39 29 48.6	91 32 51.3	2,707
T. 55 N., R. 6 W., S. quarter cor. sec. 35, rd. at hedge fence N., 60 ft. W. of rd. at hedge fence S. at N. quarter cor. sec. 2, T. 54 N., R. 6 W. -----	39 29 48.2	91 32 18.2	2,599
Center, about 0.8 mi. S. of, near S. cor. secs. 35 and 36, T. 55 N., R. 6 W., 63 ft. N. and 37 ft. E. from County Route P at rd. E., 42 ft. N. of Highway 19 W. produced, 30 ft. N. of fence corner, in concrete post; standard tablet stamped "1422 C W A 1934" -----	39 29 48.01	91 31 43.61	2,710

(Continued in Monroe City quadrangle; see line 4.)

5. FROM FLORIDA QUADRANGLE AT SEC. 12, T. 53 N., R. 8 W., EAST ALONG
COUNTY ROUTE D TO SEC. 23, T. 53 N., R. 7 W., THENCE EAST ALONG
ROADS INTO VANDALIA QUADRANGLE AT SEC. 7, T. 53 N., R. 5 W.
(by C. D. Craig in 1935)

(Continued from Florida quadrangle; see line 7.)

T. 53 N., Rs. 7 and 8 W., cor. secs. 7, 12, 13, and 18, 37 ft. S. and 52 ft. W. from County Route D at crossroad, 2 ft. N. of fence, in concrete post; standard tablet stamped "53 C W A 1934" -----	39 22 57.50	91 44 12.31	(5,909)
Highway at fences N. and S. -----	39 22 57.7	91 43 34.0	3,011
T. 53 N., R. 7 W., cor. secs. 7, 8, 17, and 18, crossroad on Monroe-Ralls county line -----	39 22 57.5	91 42 59.6	2,697
Junction of rd. S. -----	39 22 57.2	91 42 09.2	3,959
T. 53 N., R. 7 W., cor. secs. 8, 9, 16, and 17, junction of rd. N. -----	39 22 57.4	91 41 52.6	1,307
Perry, 4 mi. S. of, 1 ft. S. and 30 ft. E. from produced junction of County Route B at quarter cor. between secs. 9 and 16, T. 53 N., R. 7 W., in concrete post; standard tablet stamped "T T 10 C 1935" -----	39 22 57.01	91 41 18.51	2,673
Highway at hedge fence W. -----	39 22 04.6	91 41 20.5	5,305
County Route B from N.-W. at County Route D east- junction of rd. S. -----	39 21 38.3	91 41 21.1	2,666
Junction of rd. S. -----	39 21 37.8	91 40 47.4	2,650
Junction of rd. N. -----	39 21 37.5	91 40 30.5	1,325
Hutchison, 1 mi. N., thence 1 mi. W. from, quarter cor. between secs. 22 and 23, T. 53 N., R. 7 W., 36 ft. S. and 36 ft. W. from cross- road, in concrete post; standard tablet stamped "T T 11 C 1935" -----	39 21 37.38	91 39 40.46	3,933
Junction of State Highway 19 -----	39 21 37.6	91 38 32.4	5,347
T. 53 N., R. 7 W., cor. secs. 13, 14, 23, and 24, State Highway 19 at rd. E. -----	39 22 03.9	91 36 31.8	2,665
Rd. at fences N. and S. -----	39 22 03.7	91 37 58.7	2,600

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 53 N., R. 6 W., E. sixteenth cor. between secs. 18 and 19, 23 ft. N. of T-rd. S., 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 17 C 1935" -----	39 22 03.11	91 36 45.12	5,760
T-rd. N. -----	39 22 02.7	91 36 28.4	1,310
T. 53 N., R. 6 W., cor. secs. 16, 17, 20, and 21, crossroads -----	39 22 01.8	91 35 20.0	5,381
Rd. at fences N. and S. -----	39 22 00.5	91 34 10.9	5,427
T. 53 N., R. 6 W., cor. secs. 14, 15, 22, and 23, 34 ft. S. and 40 ft. E. from crossroads, 13 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 18 C 1935" -----	39 21 59.01	91 33 03.74	5,276
T. 53 N., R. 6 W., cor. secs. 13, 14, 23, and 24, T-rd. N. -----	39 21 57.9	91 31 55.6	5,351
T. 53 N., R. 5 W., W. cor. secs. 18 and 19, 20 ft. S. and 2 ft. E. from rd. corner N.-E., 3 ft. N. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 22 C 1935" -----	39 21 52.68	91 30 47.65	5,365
T. 53 N., R. 5 W., W. cor. secs. 7 and 18, T-rd. E., 415 ft. S. of rd. corner from W.-S. at E. cor. secs. 12 and 13, T. 53 N., R. 6 W. -----	39 22 44.9	91 30 46.2	5,285
T T 15 C 1935 (In Vandalia quadrangle; see line 3.) -----	39 22 42.06	91 29 19.48	6,817

6. FROM SEC. 36, T. 55 N., R. 6 W., SOUTH INTO VANDALIA QUADRANGLE AT
SEC. 7, T. 53 N., R. 5 W. (by C. D. Craig in 1935)

1422 C W A 1934 (previously described) -----	39 29 46.01	91 31 43.61	.....
Tps. 54 and 55 N., Rs. 5 and 6 W., cor. of, T-rd. N. -----	39 29 46.8	91 30 36.2	5,288
T-rd. S. -----	39 29 46.6	91 30 23.1	1,029
Madisonville, 1.8 mi. NW. of, in NW 1/4 sec. 7, T. 54 N., R. 5 W., 28 ft. S. of rd. corner, 2 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 12 C 1935" -----	39 28 40.71	91 30 34.97	6,732
Rd. at fences E. and W. -----	39 28 00.5	91 30 22.6	4,184
T-rd. N. -----	39 27 41.8	91 30 22.8	1,891

(For balance in Vandalia quadrangle, see line 3.)

Center of triangle at rd. fork SW. -----	39 26 23.4	91 30 07.7	(2,514)
Rd. at fences N. and E. -----	39 26 09.7	91 30 40.4	2,915
Madisonville, 2 mi. SW. of, in NE 1/4 sec. 25, T. 54 N., R. 6 W., 23 ft. N. (? S.) and 64 ft. E. (? W.) from rd. forks, 4 ft. S. and 2 ft. W. from fence corner, in concrete post; stan- dard tablet stamped "T T 13 C 1935" -----	39 26 02.37	91 30 58.34	1,593
T. 54 N., R. 6 W., center sec. 25, rd. at fences W. and S. -----	39 25 53.1	91 31 15.0	1,608
Crossroads -----	39 25 26.6	91 31 32.6	3,016
T. 54 N., R. 6 W., W. sixteenth cor. on S. line sec. 36, T-rd. N. -----	39 24 34.4	91 31 33.5	5,288
T. 53 N., R. 6 W., N. quarter cor. sec. 1, T-rd. S. -----	39 24 34.2	91 31 15.7	1,400
Rd. at fence W. -----	39 24 08.3	91 31 16.9	2,622
T. 53 N., R. 6 W., quarter cor. between secs. 1 and 12, 55 ft. N. and 28 ft. E. from cross- roads, 8 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 14 C 1935" -----	39 23 42.31	91 31 17.73	2,631
Rd. at hedge fences N. and S., 20 ft. N. of E. cor. secs. 1 and 12, T. 53 N., R. 6 W. -----	39 23 41.1	91 30 44.6	2,607
Rd. corner from W.-S. -----	39 23 37.5	91 30 10.0	2,738

(Continued in Vandalia quadrangle; see line 3.)

7. FROM SEC. 18, T. 53 N., R. 5 W., SOUTHEAST INTO VANDALIA QUADRANGLE
AT SEC. 19, T. 53 N., R. 5 W. (by C. D. Craig in 1935)

T T 22 C 1935 (previously described) -----	39 21 52.68	91 30 47.65	.....
Rd. corner from W.-S. -----	39 21 52.6	91 30 27.2	1,609
T-rd. N. -----	39 21 00.0	91 30 27.5	5,323

(Continued in Vandalia quadrangle; see line 5.)

8. FROM SEC. 12, T. 53 N., R. 8 W., SOUTH TO SEC. 30, T. 52 N., R. 7 W.
(by B. D. Harsha in 1935)

53 C W A 1934 (previously described) -----	39 22 57.50	91 44 12.31	.....
Rd. at fence E. -----	39 22 32.0	91 44 12.3	2,584
T. 53 N., Rs. 7 and 8 W., approximate cor. secs. 13, 18, 19, and 24, rd. at fence E. -----	39 22 05.8	91 44 13.0	2,651
Rd. at fences E. and W. -----	39 21 39.3	91 44 13.8	2,676
T. 53 N., Rs. 7 and 8 W., approximate cor. secs. 19, 24, 25, and 30, rd. at fence W. -----	39 21 13.2	91 44 14.5	2,645

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 53 N., Rs. 7 and 8 W., quarter cor. between secs. 25 and 30, 36 ft. N. and 48 ft. E. from crossroads, 8 ft. N. of fence, in concrete post; standard tablet stamped "54 C W A 1934" -	39 20 47.52	91 44 14.53	2,594
T. 53 N., Rs. 7 and 8 W., approximate cor. secs. 25, 30, 31, and 36, rd. at fence E. on Audrain-Monroe county line -----	39 20 21.2	91 44 15.8	2,665
T-rd. W. -----	39 19 54.8	91 44 16.4	2,665
Tps. 52 and 53 N., Rs. 7 and 8 W., cor. of, T-rd. E. -----	39 19 28.6	91 44 17.1	2,656
T-rd. W. -----	39 19 02.6	91 44 18.0	2,635
T. 52 N., R. 7 W., W. cor. secs. 6 and 7, T-rd. E. -----	39 18 39.1	91 44 18.7	2,371
T-rd. E. -----	39 18 10.2	91 44 19.6	2,925
Worcester, 1.5 mi. N. and 0.8 mi. E. from, E. cor. secs. 12 and 13, T. 52 N., R. 8 W., 5 ft. N. and 35 ft. W. from rd. at fence W., 24 3 ft. S. and 35 ft. W. from T-rd. E. at W. cor. secs. 7 and 16, T. 52 N., R. 7 W., in concrete post; standard tablet stamped "1931 E R A 1935" -----	39 17 43.86	91 44 20.75	2,670
Rd. at fence E. -----	39 17 17.1	91 44 20.9	2,708
T. 52 N., R. 8 W., E. cor. secs. 13 and 24, T-rd. W. -----	39 16 51.4	91 44 21.4	2,595
Rd. at fence W. -----	39 16 25.1	91 44 21.9	2,660
T. 52 N., R. 8 W., E. cor. secs. 24 and 25, T-rd. W. -----	39 15 59.0	91 44 22.4	2,645
Rd. at fence W. -----	39 15 32.7	91 44 23.0	2,660
T T Sta No 23 M 1926 (previously described) -----	39 15 06.98	91 44 24.12	2,601

9. FROM SEC. 7, T. 53 N., R. 7 W., WEST ALONG COUNTY ROUTE D INTO FLORIDA QUADRANGLE (by B. D. Harsha in 1935)

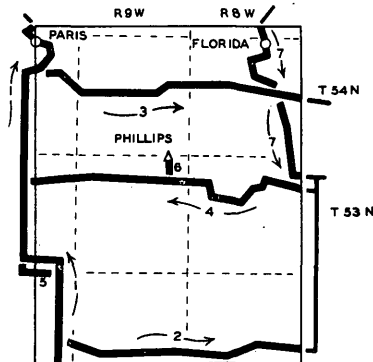
53 C W A 1934 (previously described) -----	39 22 57.50	91 44 12.31	.....
Highway at fences N. and S. -----	39 22 57.3	91 44 45.6	2,613

(Continued in Florida quadrangle; see line 4.)

Magnetic declination 5° 39' E.

FLORIDA QUADRANGLE
(Latitude 39°15'-39°30'; longitude 91°45'-92°00')

Audrain and Monroe Counties



1. FROM MEXICO QUADRANGLE AT SEC. 35, T. 52 N., R. 10 W., NORTH INTO HUNNEWELL QUADRANGLE AT PARIS, INCLUDING THAT PART OF THE LINE IN MADISON QUADRANGLE (by S. H. Meyers in 1926)*

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 52 N., R. 10 W., quarter cor. between secs. 35 and 36, T-rd. W. (in Mexico quadrangle)** -----	39 14 40.9	91 59 21.8	.....
T. 52 N., R. 10 W., cor. secs. 25, 26, 35, and 36, rd. at fences E. and W. -----	39 15 07.4	91 59 21.3	2,680
T. 52 N., R. 10 W., quarter cor. between secs. 25 and 26, rd. at fences E. and W. -----	39 15 33.6	91 59 20.5	2,650

*Line 1 of Madison quadrangle includes a portion of this line (see Bull. 916-G).

**Published also in Mexico quadrangle (see Bull. 916-C).

Station	Latitude			Longitude			Distance
	°	'	"	°	'	"	Feet
Skinner, cor. secs. 23, 24, 25, and 26, T. 52 N., R. 10 W., 24 ft. S. and 16 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 15 M 1926" -----	39	15	59.61	91	59	19.49	2,640
T. 52 N., R. 10 W., quarter cor. between secs. 23 and 24, rd. at fences E. and W. -----	39	16	26.0	91	59	19.0	2,670
T. 52 N., R. 10 W., cor. secs. 13, 14, 23, and 24, rd. at fence E. -----	39	16	52.2	91	59	18.3	2,650
T. 52 N., R. 10 W., quarter cor. between secs. 13 and 14, T-rd. W. -----	39	17	18.5	91	59	17.4	2,670
T. 52 N., R. 10 W., cor. secs. 11, 12, 13, and 14, rd. at fences E. and W. -----	39	17	44.5	91	59	16.3	2,630
T. 52 N., R. 10 W., quarter cor. between secs. 11 and 12, T-rd. E. -----	39	18	11.0	91	59	15.6	2,680
Youngs Creek, center of bridge over T. 52 N., R. 10 W., cor. secs. 1, 2, 11, and 12, rd. at fence E. -----	39	18	20.3	91	59	14.1	948
Crossroads -----	39	18	36.9	91	59	13.5	1,680
T. 52 N., R. 10 W., quarter cor. between secs. 1 and 2, rd. at fence W. -----	39	18	51.4	91	59	12.9	1,470
T. 52 N., R. 10 W., N. cor. secs. 1 and 2, 20 ft. N. and 10 ft. W. from T-rd. S., 20 ft. N. and 130 ft. E. from S. cor. secs. 35 and 36, T. 53 N., R. 10 W., in concrete post; standard tablet stamped "T T Sta No 16 M 1926" -----	39	19	03.2	91	59	12.4	1,190
T-fence S. -----	39	19	31.17	91	59	12.35	2,835
T-fence N. -----	39	19	31.4	91	59	45.7	2,620
Tps. 52 and 53 N., R. 10 W., approximate cor. secs. 2, 3, 34, and 35, crossroads -----	39	19	31.4	91	59	47.3	130
T. 53 N., R. 10 W., quarter cor. between secs. 34 and 35, rd. at fence W. -----	39	19	31.7	92	00	20.6	2,615
T. 53 N., R. 10 W., cor. secs. 26, 27, 34, and 35, T-rd. E. -----	39	19	58.2	92	00	20.5	2,680
T-rd. E. -----	39	20	25.0	92	00	20.4	2,710
T. 53 N., R. 10 W., cor. secs. 22, 23, 26, and 27, crossroads -----	39	20	50.9	92	00	19.5	2,620
T. 53 N., R. 10 W., quarter cor. between secs. 22 and 23, rd. at fences E. and W. -----	39	21	17.5	92	00	18.7	2,690
T. 53 N., R. 10 W., cor. secs. 14, 15, 22, and 23, 26 ft. S. and 45 ft. E. from junction of State Highway 15 and rd. E., in concrete post; standard tablet stamped "T T Sta No 17 M 1926" * -----	39	21	43.7	92	00	17.8	2,650
T. 53 N., R. 10 W., quarter cor. between secs. 14 and 15, T-rd. W. -----	39	22	09.50	92	00	16.37	2,612
T. 53 N., R. 10 W., cor. secs. 10, 11, 14, and 15, crossroads -----	39	22	35.8	92	00	15.8	2,668
T. 53 N., R. 10 W., quarter cor. between secs. 10 and 11, rd. at fence E. -----	39	23	03.3	92	00	14.6	2,780
Rd. at fence E. -----	39	23	29.8	92	00	14.0	2,680
T. 53 N., R. 10 W., quarter cor. between secs. 2 and 3, T-rd. E. -----	39	23	53.2	92	00	13.5	2,370
Rd. at fence W., 10 ft. S. of rd. at fence E. -----	39	24	22.6	92	00	12.8	2,980
Paris, 4 mi. S. of, in NE 1/4 sec. 34, T. 54 N., R. 10 W., 25 ft. N. and 28 ft. E. from crossroad, in concrete post; standard tablet stamped "T T Sta No 18 M 1926" -----	39	24	45.2	92	00	12.4	2,280
Crossroads -----	39	25	24.10	92	00	27.13	4,108
Rd. at fence W. -----	39	25	37.7	92	00	25.4	1,387
Elk Fork of Salt River, center of bridge over T. 54 N., R. 10 W., cor. secs. 14, 15, 22, and 23, rd. at fences E. and W. -----	39	26	17.0	92	00	13.0	4,091
T. 54 N., R. 10 W., quarter cor. between secs. 14 and 15, rd. at fence W. -----	39	26	34.3	92	00	06.9	1,817
Paris, 0.8 mi. S. of, State Highway 15 at rd. E. at junction of U.S. Highway 24 -----	39	27	22.5	92	00	05.6	4,876
Paris, 10 ft. S. and 78 ft. W. from W. entrance to courthouse, in concrete sidewalk; standard tablet stamped "T T Sta No 19 M 1926" -----	39	27	48.7	92	00	05.6	2,656
Paris, Wabash Ry. at crossing of State Highway 15 -----	39	28	15.1	92	00	02.5	2,678
Middle Fork of Salt River, center of State Highway 15 bridge over -----	39	28	58.14	91	59	59.46	4,363
T. 54 N., R. 10 W., quarter cor. between secs. 2 and 3, U.S. Highway 24 at crossroad -----	39	29	21.2	91	59	59.3	2,329
	39	29	33.8	92	00	01.9	1,296
	39	29	59.2	92	00	01.5	2,570

(Continued in Hunnewell quadrangle; see line 2.)

2. FROM SEC. 24, T. 52 N., R. 10 W., EAST INTO FARBER QUADRANGLE AT SEC. 25, T. 52 N., R. 8 W. (by S. H. Moyers in 1926)

T T Sta No 15 M 1926 (previously described) -----	39	15	59.61	91	59	19.49	.....
T. 52 N., R. 10 W., quarter cor. between secs. 24 and 25, rd. at fence S. -----	39	15	59.4	91	58	47.0	2,560
T. 52 N., Rs. 9 and 10 W., approximate cor. secs. 19, 24, 25, and 30, rd. at fences N. and S. -----	39	15	58.9	91	58	13.5	2,630

*This tablet was reset in 1930. Its former location was 2 ft. S. and 20 ft. W. of the position described. The coordinates given represent the new position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. W. to Pleasant Grove farm -----	39 15 53.9	91 57 37.2	2,900
T. 52 N., R. 9 W., center sec. 30, intersection of rd. tangents N. and E. -----	39 15 32.2	91 57 37.4	2,200
T. 52 N., R. 9 W., quarter cor. between secs. 29 and 30, T-rd. S. (? N.) -----	39 15 31.6	91 57 03.2	2,690
T. 52 N., R. 9 W., center sec. 29, rd. at fences N. and S. -----	39 15 31.1	91 56 29.4	2,660
T. 52 N., R. 9 W., quarter cor. between secs. 28 and 29, T-rd. N. -----	39 15 30.6	91 55 55.9	2,640
T-rd. S. -----	39 15 30.3	91 55 39.0	1,330
Mexico, about 6 mi. NW. of, along State Highway 15, 1,270 ft. W. of quarter cor. between secs. 27 and 28, T. 52 N., R. 9 W., 16 ft. S. and 77 ft. E. from highway at rd. E., 60 ft. N. and 77 ft. E. from N. end of highway bridge, in concrete post; standard tablet stamped "T T Sta No 20 M 1926" -----	39 15 29.59	91 55 04.14	2,736
T. 52 N., R. 9 W., quarter cor. between secs. 27 and 28, rd. at fence N. -----	39 15 29.4	91 54 48.0	1,270
T. 52 N., R. 9 W., center sec. 27, rd. at fences N. and S. -----	39 15 28.7	91 54 14.0	2,670
T-rd. E. -----	39 15 30.8	91 53 23.2	4,001
Rd. at fence N. -----	39 15 30.1	91 53 07.2	1,260
T. 52 N., R. 9 W., quarter cor. between secs. 25 and 26, T-rd. W. -----	39 15 27.4	91 52 34.8	2,563
South Fork of Salt River, rd. on N. bank at crossing of -----	39 15 16.4	91 52 13.4	2,020
T. 52 N., R. 9 W., E. cor. secs. 25 and 36, 18 ft. E. of T-rd. W., 83 ft. N. and 20 ft. E. from T-rd. E. at W. cor. secs. 30 and 31, T. 52 N., R. 8 W., in concrete post; standard tablet stamped "T T Sta No 21 M 1926" -----	39 15 00.47	91 51 26.61	4,018
Rd. at hedge fence S. -----	39 15 00.8	91 50 47.8	3,058
Grennan Church, T-rd. S. -----	39 15 01.1	91 50 17.6	2,380
T-rd. N. -----	39 15 01.1	91 50 01.2	1,290
Rd. at fence N. -----	39 15 01.7	91 49 27.4	2,660
T. 52 N., R. 8 W., cor. secs. 28, 29, 32, and 33, rd. at fences N. and S. -----	39 15 02.2	91 48 53.6	2,660
Worcester, 1.5 mi. S., thence 1.8 mi. W. from, cor. secs. 27, 28, 33, and 34, T. 52 N., R. 8 W., 23 ft. N. and 23 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 22 M 1926" -----	39 15 02.98	91 47 45.76	5,342
T. 52 N., R. 8 W., quarter cor. between secs. 27 and 34, rd. at fence N. -----	39 15 03.5	91 47 12.4	2,630
T. 52 N., R. 8 W., cor. secs. 26, 27, 34, and 35, rd. at fence S. -----	39 15 04.2	91 46 39.0	2,630
T. 52 N., R. 8 W., quarter cor. between secs. 26 and 35 -----	39 15 05.1	91 46 05.2	2,660
T. 52 N., R. 8 W., cor. secs. 25, 26, 35, and 36- -----	39 15 05.6	91 45 31.6	2,650

(Continued in Farber quadrangle; see line 1.)

3. FROM PARIS EAST ALONG STATE HIGHWAY 26 INTO FARBER QUADRANGLE (by W. V. Kennedy in 1934)

T T Sta No 19 M 1926 (previously described) -----	39 28 56.14	91 59 59.46	.....
Junction of rd. N. -----	39 27 48.7	91 59 40.8	5,234
Junction of rd. S. -----	39 27 48.6	91 59 15.7	1,970
T. 54 N., R. 10 W., W. sixteenth cor. sec. 13, stone, 16 ft. N. of highway produced -----	39 27 48.4	91 58 41.6	2,679
Crossroad -----	39 27 24.2	91 58 10.4	3,453
T. 54 N., Rs. 9 and 10 W., approximate cor. secs. 13, 18, 19, and 24, highway at fence S. - -----	39 27 22.3	91 57 52.6	1,411
T. 54 N., R. 9 W., quarter cor. between secs. 18 and 19, 54 ft. N. and 63 ft. E. from crossroad, 70 ft. S. and 24 ft. W. from Smithey farmhouse, in concrete post; standard tablet stamped "1403 C W A 1934" -----	39 27 22.84	91 57 16.44	2,683
T. 54 N., R. 9 W., cor. secs. 17, 18, 19, and 20, junction of rd. N. -----	39 27 21.5	91 56 45.1	2,617
Crossroad -----	39 27 20.8	91 56 12.0	2,600
T. 54 N., R. 9 W., cor. secs. 16, 17, 20, and 21, highway at fence N. -----	39 27 20.0	91 55 39.5	2,549
Crossroad -----	39 27 18.9	91 54 56.3	3,390
T. 54 N., R. 9 W., cor. secs. 15, 16, 21, and 22, highway at fences N. and S., 415 ft. E. of center of bridge over Elk Fork of Salt River -- -----	39 27 18.5	91 54 31.9	1,919
T. 54 N., R. 9 W., quarter cor. between secs. 15 and 22, 49 ft. N. and 70 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1404 C W A 1934" -----	39 27 18.91	91 53 59.10	2,572
Highway at fence N. -----	39 27 25.0	91 53 30.8	2,299
Highway at fence S. -----	39 27 34.5	91 52 49.8	3,360
Junction of rd. S. -----	39 27 32.0	91 52 16.8	2,598

*It was reported in 1929 that the top of the original post was destroyed. A new tablet, unstamped, was set at the same position as the old one.

Station	Latitude	Longitude	Distance
Crossroad -----	39 27 29.7	91 51 26.4	Feet 3,961
Junction of rd. S., 27 ft. W. of highway at fence N. on line between secs. 13 and 18, T. 54 N., Rs. 8 and 9 W. -----	39 27 29.8	91 51 10.1	1,285
Highway at fences N. and S. -----	39 27 29.8	91 50 34.8	2,769
T. 54 N., R. 8 W., in sec. 18, 0.9 mi. W. of bridge over South Fork of Salt River, 51 ft. N. and 54 ft. W. from crossroad, in concrete post; standard tablet stamped "1405 C W A 1934" -----	39 27 30.35	91 50 18.92	1,245
T. 54 N., R. 8 W., S. sixteenth cor. between secs. 17 and 18, rd. at fences E. and W., 140 ft. S. of crossroad -----	39 27 28.2	91 49 45.6	2,626
Highway at fence N. -----	39 27 27.2	91 49 10.8	2,731
Junction of rd. N. on line between secs. 16 and 17, T. 54 N., R. 8 W. -----	39 27 24.8	91 48 37.2	2,648
Highway at fence S. -----	39 27 16.8	91 48 03.5	2,763
T. 54 N., R. 8 W., cor. secs. 15, 16, 21, and 22, junction of State Highway 107 -----	39 27 16.2	91 47 29.4	2,680
Highway at fences N. and S. -----	39 27 17.0	91 46 54.8	2,710
T. 54 N., R. 8 W., cor. secs. 14, 15, 22, and 23, highway at fence S. -----	39 27 17.8	91 46 20.3	2,710
T. 54 N., R. 8 W., quarter cor. between secs. 14 and 23, 37 ft. S. and 15 ft. W. from State Highway 26 at crossroad, in top of N. end of W. head wall of concrete culvert; standard tablet stamped "65 C W A 1934" -----	39 27 18.15	91 45 46.76	2,630
T. 54 N., R. 8 W., cor. secs. 13, 14, 23, and 24, highway at fence S. -----	39 27 19.1	91 45 12.4	2,700

(Continued in Farber quadrangle; see line 4.)

4. FROM FARBER QUADRANGLE WEST ALONG COUNTY ROUTE D TO SEC. 14, T. 53 N., R. 10 W., INCLUDING THAT PART OF THE LINE IN MADISON QUADRANGLE (by B. D. Harsha in 1935)

(Continued from Farber quadrangle; see line 9.)

T. 53 N., R. 8 W., cor. secs. 11, 12, 13, and 14, crossroad -----	39 22 56.8	91 45 19.5	(2,663)
Junction of lane S. at fence N. -----	39 22 55.2	91 45 53.5	2,672
T. 53 N., R. 8 W., cor. secs. 10, 11, 14, and 15, junction of rd. N. -----	39 22 55.1	91 46 27.5	2,670
T. 53 N., R. 8 W., quarter cor. between secs. 10 and 15, 58 ft. N. and 2 ft. E. from County Route D at fence N., in concrete post; standard tablet stamped "1923 E R A 1935" -----	39 22 55.60	91 47 01.15	2,644
Rd. junction -----	39 22 55.2	91 47 34.4	2,609
Center of bridge over drain -----	39 22 44.4	91 47 50.0	1,633
Junction of rd. W. -----	39 22 28.7	91 47 52.4	1,609
South Fork of Salt River, center of bridge over Highway corner from E-S. -----	39 22 25.2	91 48 17.4	1,994
Sante Fe, 14 ft. N. and 14 ft. W. from NE. corner of schoolhouse, 43 ft. S. of rd., in concrete post; standard tablet stamped "1924 E R A 1935" -----	39 22 15.6	91 48 43.2	2,248
Junction of rd. NW. -----	39 22 11.40	91 49 17.24	2,707
Goodwater Creek, center of bridge over -----	39 22 21.0	91 49 52.3	2,921
Junction of rd. N. -----	39 22 39.8	91 50 14.6	2,586
T. 53 N., Rs. 8 and 9 W., approximate cor. secs. 7, 12, 13, and 18, junction of lane S. -----	39 22 53.4	91 50 41.4	2,513
Highway at fences N. and S. -----	39 22 53.6	91 51 16.7	2,773
T. 53 N., R. 9 W., cor. secs. 11, 12, 13, and 14, 36 ft. S. and 35 ft. W. from County Route D at crossroad, 2 ft. N. of fence, in concrete post; standard tablet stamped "1925 E R A 1935" -----	39 22 53.4	91 51 50.7	2,668
Highway at fences N. and S. -----	39 22 53.20	91 22 25.19	2,706
T. 53 N., R. 9 W., cor. secs. 10, 11, 14, and 15, crossroad -----	39 22 54.4	91 52 58.3	2,604
Junction of dim rd. N. at hedge fence S. -----	39 22 55.2	91 53 32.0	2,649
T. 53 N., R. 9 W., cor. secs. 9, 10, 15, and 16, junction of rd. S. -----	39 22 55.9	91 54 05.7	2,645
Junction of rd. N. -----	39 22 56.5	91 54 39.4	2,646
T. 53 N., R. 9 W., cor. secs. 8, 9, 16, and 17, junction of rd. S. -----	39 22 56.6	91 55 12.5	2,600
T. 53 N., R. 9 W., W. sixteenth cor. between secs. 8 and 17, 36 ft. S. of County Route D at rd. N., 2 ft. S. of fence corner, in concrete post; standard tablet stamped "1926 E R A 1935" -----	39 22 57.2	91 55 45.7	2,606
T. 53 N., R. 9 W., cor. secs. 7, 8, 17, and 18, highway at fence S. -----	39 22 57.85	91 56 35.78	3,932
Highway at fence S. opposite gate N. -----	39 22 58.6	91 56 52.6	1,326
T. 53 N., Rs. 9 and 10 W., approximate cor. secs. 7, 12, 13, and 18, highway at fences N. and S. -----	39 22 59.2	91 57 26.4	2,655
Crossroad -----	39 22 59.8	91 57 00.4	2,666
	39 23 00.4	91 58 33.8	2,620

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Center of culvert over drain -----	39 23 01.8	91 59 07.6	2,660
Crossroad -----	39 23 02.6	91 59 40.5	2,584
T. 53 N., R. 10 W., cor. secs. 10, 11, 14, and 15, junction of State Highway 15 -----	39 23 03.3	92 00 14.5	2,672
State Highway 15 at fence W. -----	39 22 36.4	92 00 15.8	2,723
T T Sta No 17 M 1926 (previously described) -----	39 22 09.50	92 00 16.37	2,722

5. FROM SEC. 2, T. 52 N., R. 10 W., WEST ABOUT 1 MILE INTO MADISON QUADRANGLE
(by B. D. Harsha in 1935)*

T T Sta No 16 M 1926 (previously described) -----	39 19 31.17	91 59 12.35	.....
T. 52 N., R. 10 W., N. quarter cor. sec. 2, rd. at fence S. -----	39 19 31.4	91 59 45.7	2,620
Tps. 52 and 53 N., R. 10 W., approximate cor. secs. 2, 3, 34, and 35, State Highway 15 at crossroad (in Madison quadrangle) -----	39 19 31.8	92 00 20.5	2,735

6. FROM SEC. 14, T. 53 N., R. 9 W., NORTH TO SEC. 2, T. 53 N., R. 9 W.
(by B. D. Harsha in 1935)

Crossroad (previously described) -----	39 22 55.2	91 53 32.0	.....
Rd. at fence E. -----	39 23 21.6	91 53 31.8	2,670
Phillips triangulation sta.; U.S.C. & G.S. standard disk stamped "Phillips 1934" -----	39 23 47.87	91 53 31.90	2,659

7. FROM HUNNEWELL QUADRANGLE SOUTH ALONG STATE HIGHWAY 107 TO SEC. 21,
T. 54 N., R. 8 W., THENCE EAST ALONG STATE HIGHWAY 26 TO SEC. 23,
T. 54 N., R. 8 W., THENCE SOUTH ALONG ROADS INTO FARBER QUADRANGLE
AT SEC. 12, T. 53 N., R. 8 W. (by C. D. Craig in 1935)
(Continued from Hunnewell quadrangle; see line 7.)

Highway at hedge fences E. and W. on line between secs. 4 and 33, Tps. 54 and 55 N., R. 8 W. --- Florida, street intersection near post office --- Florida, 0.5 mi. S. of, along State Highway 107, about 0.1 mi. E. of cor. secs. 3, 4, 9, and 10, T. 54 N., R. 8 W., in top of E. end of S. abutment of bridge over Salt River; standard tablet stamped "66 C W A 1934" -----	39 29 53.7 39 29 35.1	91 47 24.4 91 47 12.7	(1,735) 2,097
Highway at fence E. -----	39 29 01.09	91 47 13.18	3,437
Highway at fences E. and W., 108 ft. E. of N.-S. rd. at fences E. and W. at cor. secs. 9, 10, 15, and 16, T. 54 N., R. 8 W. -----	39 28 36.3	91 47 20.6	2,577
Highway at fences E. and W. -----	39 28 09.4	91 47 26.8	2,759
T. 54 N., R. 8 W., cor. secs. 15, 16, 21, and 22 (previously described) -----	39 27 42.8	91 47 28.7	2,701
65 C W A 1934 (previously described) -----	39 27 16.2	91 47 29.4	2,694
Rd. at fences E. and W. -----	39 27 18.15 39 25 52.3	91 45 46.76 91 45 47.3	8,049 2,616
T. 54 N., R. 8 W., quarter cor. between secs. 23 and 26, crossroads -----	39 26 26.1	91 45 48.0	2,653
Rd. at fences E. and W. -----	39 25 59.9	91 45 48.8	2,654
T. 54 N., R. 8 W., quarter cor. between secs. 26 and 35, crossroads -----	39 25 33.6	91 45 49.6	2,663
Tps. 53 and 54 N., R. 8 W., approximate quarter cor. between secs. 2 and 35, 20 ft. S. of T-rd. N., 97 ft. E. of 18-in. thorn tree, 2 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "64 C W A 1934" -	39 24 40.34	91 45 51.17	5,388
Tps. 53 and 54 N., R. 8 W., approximate cor. secs. 1, 2, 35, and 36, T-rd. S. -----	39 24 41.3	91 45 17.0	2,680
T. 53 N., R. 8 W., cor. secs. 1, 2, 11, and 12, rd. at fences E. and W. -----	39 23 49.1	91 45 18.2	5,283
Rd. at fence W. -----	39 23 23.0	91 45 18.9	2,634

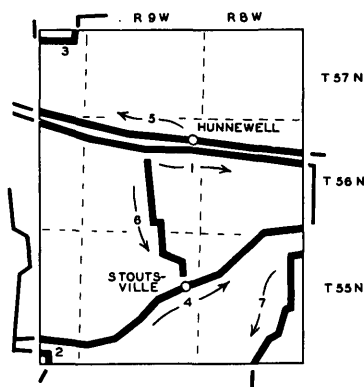
(Continued in Farber quadrangle; see line 5.)

Magnetic declination 6° 17' E.

*Line 6 of Madison quadrangle includes a portion of this line (see Bull. 916-G).

HUNNEWELL QUADRANGLE
(Latitude 39°30'-39°45'; longitude 91°45'-92°00')

Marion, Monroe, and Shelby Counties



1. FROM SHELBYNA QUADRANGLE SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO MONROE CITY QUADRANGLE (by George T. Hawkins in 1901)
(Continued from Shelbyna quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 56 N., R. 9 W., quarter cor. between secs. 6 and 7 -----	39 40 26.5	91 57 00.5	(26,472)
Hunnewell, R.R. at sta. -----	39 39 59.4	91 51 38.6	25,320
R.R. at line between secs. 7 and 12, T. 56 N., Rs. 8 and 9 W. -----	39 39 51.3	91 50 47.8	4,001
T. 56 N., R. 8 W., cor. secs. 8, 9, 16, and 17 --	39 39 30.1	91 48 33.0	10,706

(Continued in Monroe City quadrangle; see line 1.)

2. FROM FLORIDA QUADRANGLE AT PARIS, NORTHWEST INTO SHELBYNA QUADRANGLE AT SEC. 34, T. 55 N., R. 10 W. (by S. H. Moyers in 1926)
(Continued from Florida quadrangle; see line 1.)

T. 55 N., R. 10 W., quarter cor. between secs. 34 and 35, T-rd. W. -----	39 30 26.2	91 59 59.2	(2,740)
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(Continued in Shelbyna quadrangle; see line 3.)

3. FROM SHELBYNA QUADRANGLE AT SEC. 15, T. 57 N., R. 10 W., NORTHEAST INTO NEWARK QUADRANGLE AT SEC. 12, T. 57 N., R. 10 W. (by Roy E. Keim in 1934)
(Continued from Shelbyna quadrangle; see line 4.)

T-rd. S. -----	39 44 47.6	91 58 19.0	(7,976)
T-rd. N. -----	39 44 47.3	91 58 02.0	1,324

(Continued in Newark quadrangle; see line 5.)

4. FROM SHELBYNA QUADRANGLE NORTHEAST ALONG U.S. HIGHWAY 24 INTO MONROE CITY QUADRANGLE (by W. V. Kennedy in 1934-35)
(Continued from Shelbyna quadrangle; see line 6.)

Junction of rd. W. -----	39 30 26.2	91 59 59.2	(2,748)
Junction of State Highway 15 -----	39 30 51.8	91 59 41.4	2,938
Goss, 2.4 mi. W. of, 0.5 mi. E. of junction of State Highway 15, 48 ft. N. of highway, 23 ft. S. and 111 ft. W. from SW. corner of farmhouse of C. Scobee, 2 ft. inside fence, in concrete post; standard tablet stamped "1415 C W A 1934" -----	39 30 51.55	91 59 09.42	2,509
T. 55 N., R. 10 W., cor. secs. 25, 26, 35, and 36, highway at fences N. and S. -----	39 30 50.7	91 58 52.8	1,308
Highway at fence N. -----	39 30 50.6	91 58 17.4	2,770
Junction of rd. N., 163 ft. N. of produced T-rd. N. at E. cor. secs. 25 and 36, T. 55 N., R. 10 W. -----	39 30 52.7	91 57 44.8	2,572
Highway at fence S. -----	39 30 52.0	91 57 12.4	2,537
Goss, junction of rd. S., 440 ft. N. of T-rd. N. at cor. secs. 29, 30, 31, and 32, T. 55 N., R. 9 W. -----	39 30 54.0	91 56 41.0	2,472

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Goss, about 0.7 mi. NE. of, 52 ft. N. and 245 ft. E. from junction of rd. N., 3 ft. inside fence, in concrete post; standard tablet stamped "1416 C W A 1934" -----	39 31 08.85	91 55 47.53	4,449
Highway at fence N. -----	39 31 15.4	91 55 33.0	1,313
Highway at fence N. along creek -----	39 31 32.4	91 54 59.2	3,164
Highway at produced rd. S., 185 ft. S. and 140 ft. E. from junction of rd. SE. -----	39 31 51.1	91 54 41.4	2,349
Otter Creek, center of bridge over -----	39 32 03.1	91 54 09.4	2,789
Crossroad -----	39 32 17.6	91 53 34.5	3,105
Crossroad on line between secs. 14 and 15, T. 55 N., R. 9 W. -----	39 32 38.2	91 53 17.7	2,462
North Fork of Salt River, center of bridge over - Stoutsville, 1 mi. SW. of, 1,000 ft. NE. of bridge over Salt River, 64 ft. N. of E.-W. crossroad, 2 ft. inside fence, in concrete post; standard tablet stamped "1417 C W A 1934" -----	39 32 52.5	91 52 41.4	3,190
T. 55 N., R. 9 W., center of NW 1/4 sec. 13, rd. at gate -----	39 32 57.68	91 52 27.40	1,216
Highway at fences N. and S. -----	39 33 10.6	91 51 54.1	2,921
Highway at fences N. and S. -----	39 33 19.5	91 51 20.0	2,819
T. 55 N., R. 8 W., E. sixteenth cor. sec. 7, rd. at fences N. and S. -----	39 33 34.8	91 50 34.0	3,919
T. 55 N., R. 8 W., near cor. secs. 5, 6, 7, and 8, 69 ft. N. 24° W. of NE. corner of junction of State Highway 107, 42 ft. E. of highway 107 at curve, 4 ft. inside fence, in concrete post; standard tablet stamped "1418 C W A 1934" -----	39 33 53.3	91 49 59.7	3,273
T. 55 N., R. 8 W., center sec. 5, stone at corner of hedge fences -----	39 34 22.18	91 49 40.83	3,274
Rd. at fence E., 0.8 mi. N. of cor. secs. 4, 5, 8, and 9, T. 55 N., R. 8 W. -----	39 34 45.2	91 49 06.4	3,562
Junction of rd. S. -----	39 34 57.8	91 48 30.9	3,063
Junction of rd. N. on line between secs. 3 and 4, T. 55 N., R. 8 W. -----	39 35 15.1	91 47 55.2	3,299
Indian Creek, 96 ft. W. from NW.-SE. crossroad, 60 ft. SW. of steel post in fence corner, 2 ft. inside fence, in concrete post; standard tablet stamped "1419 C W A 1934" -----	39 35 29.2	91 47 19.4	3,145
Highway at fences N. and S., 426 ft. S. of rd. at fence S. at N. cor. secs. 2 and 3, T. 55 N., R. 8 W. -----	39 35 42.99	91 46 39.39	3,427
Highway at fences N. and S. -----	39 35 54.2	91 46 11.1	2,488
T. 56 N., R. 8 W., S. cor. secs. 35 and 36, junction of rd. N. -----	39 35 58.2	91 45 47.1	1,923
69 C W A 1934 (In Monroe City quadrangle; see line 6.) -----	39 35 58.1	91 45 13.2	2,656
	39 36 11.48	91 44 26.24	3,917

5. FROM MONROE CITY QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 36 INTO SHELBYNA QUADRANGLE (by S. T. Tudor in 1935)
(Continued from Monroe City quadrangle; see line 10.)

T. 56 N., R. 8 W., cor. secs. 11, 12, 13, and 14, highway at fence N. -----	39 39 27.8	91 45 11.6	(2,991)
Highway at fence N. -----	39 39 28.3	91 45 45.3	2,640
T. 56 N., R. 8 W., cor. secs. 10, 11, 14, and 15, crossroad -----	39 39 28.7	91 46 18.9	2,630
Highway at fence N. -----	39 39 29.1	91 46 56.0	2,900
T. 56 N., R. 8 W., cor. secs. 9, 10, 15, and 16, 29 ft. S. and 27 ft. E. from crossroad on Marion-Monroe county line, in concrete post; standard tablet stamped "1534 E R A 1935" -----	39 39 29.04	91 47 26.33	2,370
Highway at culvert -----	39 39 29.7	91 48 02.6	2,836
Chicago, Burlington & Quincy R.R. at rd. S. (? rd. N.) -----	39 39 30.1	91 48 34.0	2,457
Highway at fence N. -----	39 39 36.2	91 49 07.5	2,689
Junction of County Route K -----	39 39 41.5	91 49 41.1	2,681
Highway at fence N. -----	39 39 46.9	91 50 14.8	2,690
T. 56 N., Rs. 8 and 9 W., on line between secs. 7 and 12, on U.S. Highway 36, on Marion-Shelby county line, 50 ft. S. and 50 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1535 E R A 1935" -----	39 39 52.09	91 50 48.44	2,686
Chicago, Burlington & Quincy R.R. at fences N. and S. -----	39 39 51.3	91 50 47.8	94
Chicago, Burlington & Quincy R.R. at fence S. --- Hunnewell, Chicago, Burlington & Quincy R.R. at sta. -----	39 39 56.6	91 51 21.2	2,663
Junction of rd. N. on line between secs. 11 and 12, T. 56 N., R. 9 W. -----	39 39 59.4	91 51 38.6	1,393
Junction of rd. N. -----	39 40 07.2	91 51 54.7	1,488
Junction of rd. N. on line between secs. 10 and 11, T. 56 N., R. 9 W. -----	39 40 11.0	91 52 28.2	2,649
T. 56 N., R. 9 W., in NE 1/4 sec. 9, 400 ft. W. of bridge over North Fork of Salt River, 30 ft. N. and 25 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1536 E R A 1935" -----	39 40 18.3	91 53 03.1	2,824
	39 40 03.63	91 54 16.37	5,920

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Fest
Highway at fence N. -----	39 39 59.8	91 54 45.2	2,290
Highway at fences N. and S. on line between secs. 8 and 9, T. 56 N., R. 9 W. -----	39 39 59.9	91 55 18.2	2,575
Highway at fences N. and S. -----	39 40 05.3	91 55 52.3	2,727
Chicago, Burlington & Quincy R.R. at fences N. and S. on line between secs. 7 and 8, T. 56 N., R. 9 W. -----	39 40 12.5	91 56 26.0	2,734
Chicago, Burlington & Quincy R.R. at rd. crossing Junction of private entrance N. on line between secs. 1 and 6, T. 56 N., R. 9 and 10 W. -----	39 40 20.6	91 57 00.2	2,791
Lakenan, 0.8 mi. NW. of, in SE 1/4 sec. 1, T. 56 N., R. 10 W., 166 ft. S. and 15 ft. W. from highway at fence N.; iron post stamped "747 Q" -----	39 40 29.3	91 57 33.7	2,764
Highway at fence N. -----	39 40 31.42	91 57 50.61	1,342
Highway at fence N. -----	39 40 45.4	91 58 42.6	4,305
Highway at fence N. -----	39 40 53.5	91 59 14.8	2,635
Crossroad -----	39 41 01.0	91 59 48.9	2,785

(Continued in Shelbina quadrangle; see line 7.)

6. FROM SEC. 9, T. 56 N., R. 9 W., SOUTH TO STOUTSVILLE (by C. D. Craig in 1935)

1536 E R A 1935 (previously described) -----	39 40 03.63	91 54 16.37	.....
T. 56 N., R. 9 W., near line between secs. 9 and 10, in NW. pier of bridge over North Fork of Salt River; standard tablet (set by water- resources branch of U.S. Geol. Survey) -----	39 40 05.59	91 54 11.22	449
U.S. Highway 36 at rd. S. -----	39 40 07.3	91 53 44.4	2,102
T-rd. N., 40 ft. W. of stone at W. sixteenth cor. between secs. 10 and 15, T. 56 N., R. 9 W. -----	39 39 33.2	91 53 54.3	3,542
Rd. at fences E. and W. -----	39 39 16.7	91 53 50.5	1,693
T-rd. N. -----	39 38 40.6	91 53 38.3	3,779
T. 56 N., R. 9 W., 0.1 mi. W. of center sec. 22, 29 ft. N. and 32 ft. E. from rd. at fences E. and W., 29 ft. N. and 12 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 19 C 1935" -----	39 38 14.50	91 53 47.53	2,735
Rd. at fences E. and W., 6 ft. W. of stone at W. sixteenth cor. between secs. 22 and 27, T. 56 N., R. 9 W. -----	39 37 47.8	91 53 56.4	2,793
Rd. at fences E. and W. -----	39 37 21.4	91 53 56.7	2,670
T. 56 N., R. 9 W., quarter cor. between secs. 27 and 34, stone at rd. corner from W.-S. -----	39 36 55.3	91 53 40.5	2,932
Rd. at fences E. and W. -----	39 36 29.1	91 53 41.2	2,651
T. 56 N., R. 9 W., S. quarter cor. sec. 34, 17 ft. S. and 5 ft. W. from T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 20 C 1935" -----	39 36 02.65	91 53 41.69	2,673
T. 55 N., R. 9 W., N. cor. secs. 2 and 3, T-rd. S. -----	39 36 02.8	91 53 11.2	2,390
T-rd. E. -----	39 35 22.8	91 53 12.1	4,046
Rd. corner from N.-E. -----	39 34 54.9	91 52 56.2	3,086
T. 55 N., R. 9 W., S. sixteenth cor. sec. 2, 25 ft. N. and 21 ft. W. from T-rd. N., 8 ft. N. and 3 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 21 C 1935" -----	39 34 28.40	91 52 41.34	2,921
T-rd. W. -----	39 34 27.8	91 51 51.6	3,896
Rd. at fence W. -----	39 33 48.6	91 51 52.7	3,960
T-rd. E. -----	39 33 22.9	91 51 53.6	2,604
U.S. Highway 24 at crossroad -----	39 33 08.3	91 51 54.1	1,483
1417 C W A 1934 (previously described) -----	39 32 57.68	91 52 27.40	2,822

7. FROM MONROE CITY QUADRANGLE AT SEC. 1, T. 55 N., R. 8 W., SOUTHWEST TO
SEC. 33, T. 55 N., R. 8 W., THENCE SOUTH ALONG STATE HIGHWAY 107 INTO
FLORIDA QUADRANGLE (by C. D. Craig in 1935)

T-rd. E. (In Monroe City quadrangle; see line 6.)	39 35 22.7	91 44 55.8	.....
Rd. at fence E. -----	39 34 56.3	91 45 03.2	2,731
Rd. forks, 160 ft. NE. of bridge -----	39 34 28.5	91 45 03.7	2,810
Indian Creek, center of bridge over -----	39 34 06.4	91 45 00.8	2,251
T. 55 N., R. 6 W., cor. secs. 11, 12, 13, and 14, 23 ft. S. and 18 ft. E. from crossroads, 2 ft. S. and 1 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 68 C W A 1934" -----	39 33 24.77	91 45 04.33	4,219
T-rd. E. -----	39 32 59.0	91 45 05.1	2,604
T. 55 N., R. 8 W., cor. secs. 13, 14, 23, and 24, rd. corner from N.-W. -----	39 32 33.1	91 45 05.8	2,628
Rd. corner from E.-S. -----	39 32 06.8	91 45 40.9	3,823
T. 55 N., R. 8 W., quarter cor. between secs. 23 and 26, 19 ft. N. and 28 ft. E. from T-rd. N., 400 ft. W. of schoolhouse, in concrete post; standard tablet stamped "67 C W A 1934" -----	39 31 41.04	91 45 41.28	2,608
T-rd. S. -----	39 31 40.8	91 45 59.2	1,406
Rd. at fences E. and W. -----	39 31 14.6	91 45 54.9	2,674

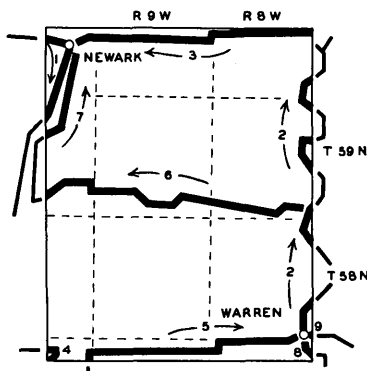
Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Rd. at fence N. -----	39 30 54.3	91 46 36.2	3,836
Rd. corner from E.-S. -----	39 30 37.1	91 47 27.0	4,343
Junction of rd. NW. -----	39 30 07.3	91 47 37.8	3,134

(Continued in Florida quadrangle; see line 7.)

Magnetic declination 6° 14' E.

NEWARK QUADRANGLE
(Latitude 39°45'-40°00'; longitude 91°45'-92°00')

Knox, Lewis, Marion, and Shelby Counties



1. FROM SHELBYVILLE QUADRANGLE AT SEC. 22, T. 60 N., R. 10 W., SOUTH INTO SHELBYVILLE QUADRANGLE AT SEC. 3, T. 59 N., R. 10 W. (by J. R. Ellis in 1905)

(Continued from Shelbyville quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Newark, 1.5 mi. SW. of, along County Route B, 50 ft. N. of junction of rd. S., about 200 ft. E. of Strook farmhouse; iron post stamped "Prim Trav Sta No 5 1905" -----	39 59 11.78	91 59 50.80	(7,052)
T. 60 N., R. 10 W., cor. secs. 26, 27, 34, and 35, stone at crossroads -----	39 57 51.1	91 59 25.9	8,393
T. 60 N., R. 10 W., E. sixteenth cor. on S. line sec. 34, Knox-Shelby county line, stone at T-rd. -----	39 56 59.9	91 59 43.7	5,373

(Continued in Shelbyville quadrangle; see line 2.)

2. FROM WARREN NORTH INTO PALMYRA QUADRANGLE AT SEC. 26, T. 60 N., R. 8 W. (by C. L. Overstreet in 1934)

Warren, 32 ft. NW. of Main Street at rd. S., 70 ft. NW. of post office, in yard of dwelling of Dr. R. A. Terrell, in concrete post; standard tablet stamped "73 C W A 1934" -----	39 46 25.76	91 45 22.54	.....
Center of bridge -----	39 46 52.4	91 45 05.1	3,020
T-rd. S. -----	39 47 43.1	91 45 04.1	5,141

(For balance in Palmyra quadrangle, see line 2.)

T. 59 N., R. 8 W., quarter cor. between secs. 35 and 36, 55 ft. N. and 35 ft. E. from County Route N at crossroad, in concrete post; standard tablet stamped "75 C W A 1934" -----	39 52 04.14	91 45 00.19	(5,287)
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(For balance in Palmyra quadrangle, see line 2.)

County Route N at rd. N. -----	39 54 01.7	91 45 16.6	(4,783)
County Route N at crossroad -----	39 54 14.7	91 45 30.0	1,676
T. 59 N., R. 8 W., in NE 1/4 sec. 14, 6.5 mi. S. and 2.5 mi. W. from Ewing, 270 ft. N. and 37 ft. E. from County Route N at crossroad, in concrete post; standard tablet -----	39 54 43.62	91 45 32.62	2,936

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. -----	39 55 07.2	91 45 33.0	2,389

(For balance in Palmyra quadrangle, see line 2.)

T. 60 N., R. 8 W., in SE 1/4 sec. 35, 3.5 mi. S. and 2 mi. W. from Ewing, 400 ft. S. of entrance to farm, 15 ft. W. of rd., in concrete post; standard tablet -----	39 57 11.70	91 45 15.75	(7,325)
T-rd. W. -----	39 57 39.0	91 45 15.2	2,770

(Continued in Palmyra quadrangle; see line 2.)

3. FROM PALMYRA QUADRANGLE AT SEC. 13, T. 60 N., R. 8 W., WEST TO SEC. 15, T. 60 N., R. 9 W., THENCE WEST ALONG COUNTY ROUTE B TO SEC. 22, T. 60 N., R. 10 W. (by C. L. Overstreet in 1934)

(Continued from Palmyra quadrangle; see line 2.)

Center of culvert -----	39 59 53.6	91 45 18.0	(1,614)
T-rd. E. on line between secs. 14 and 15, T. 60 N., R. 8 W. -----	39 59 54.1	91 46 04.6	3,628
Center of culvert -----	39 59 56.2	91 46 38.2	2,620
T-rd. S. -----	39 59 53.0	91 47 11.5	2,614
Center of culvert -----	39 59 55.1	91 47 35.1	1,853
T. 60 N., R. 8 W., quarter cor. between secs. 16 and 17, 77 ft. NW. of NW. corner of Oyster Prairie Grange and Community House, 50 ft. S. and 195 ft. W. from crossroads, 167 ft. SW. of schoolhouse, in concrete post; standard tablet-----	39 59 55.15	91 48 21.16	3,588
Crossroads on line between secs. 17 and 18, T. 60 N., R. 8 W. -----	39 59 56.1	91 49 25.7	5,023
Center of bridge -----	39 59 56.6	91 50 04.8	3,042
T-rd. S. on line between secs. 13 and 18, T. 60 N., Rs. 8 and 9 W. -----	39 59 56.9	91 50 21.9	1,335
Troublesome Creek, S. end of bridge over -----	39 59 48.4	91 50 40.1	1,663
T-rd. E. -----	39 59 31.1	91 51 04.6	1,918
T. 60 N., R. 9 W., cor. secs. 13, 14, 23, and 24, 240 ft. W. of T-rd. S., 75 ft. SE. of dwelling of Stanley Turner, 30 ft. N. of rd., in concrete post; standard tablet stamped "5 B 1936"-----	39 59 31.24	91 51 32.94	2,209
Center of culvert -----	39 59 31.0	91 52 16.5	3,392
T. 60 N., R. 9 W., cor. secs. 14, 15, 22, and 23, T-rd. S. -----	39 59 31.1	91 52 37.4	1,628
Crossroads -----	39 59 31.9	91 53 11.3	2,640
T. 60 N., R. 9 W., cor. secs. 16, 17, 20, and 21, junction of County Route D -----	39 59 33.4	91 54 52.7	7,888
E. end of bridge -----	39 59 32.6	91 55 54.2	4,797
Newark, 1.5 mi. E. of, along County Route B, 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "4 B 1936" -----	39 59 33.03	91 56 34.50	3,141
Junction of rd. S. on Knox-Lewis county line -----	39 59 33.9	91 57 07.6	2,581
E. end of bridge -----	39 59 34.1	91 58 03.3	4,340
Newark, Main Street intersection -----	39 59 34.1	91 58 21.5	1,414
Highway at curve -----	39 59 31.0	91 59 17.2	4,347
Intersection of highway tangents on curve -----	39 59 17.1	91 59 21.0	1,443
Prim Trav Sta No 5 1905 (previously described) -	39 59 11.78	91 59 50.80	2,387

4. FROM SHELBYVILLE QUADRANGLE AT SEC. 10, T. 57 N., R. 10 W., SOUTHWEST INTO SHELBYVILLE QUADRANGLE AT SEC. 10, T. 57 N., R. 10 W. (by Roy E. Keim in 1934)

(Continued from Shelbyville quadrangle; see line 4.)

Center of bridge -----	39 45 12.6	91 59 57.7	(5,556)
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(Continued in Shelbina quadrangle; see line 4.)

5. FROM HUNNEWELL QUADRANGLE AT SEC. 12, T. 57 N., R. 10 W., EAST TO WARREN (by Roy E. Keim in 1934)

(Continued from Hunnewell quadrangle; see line 3.)

T-rd. N. -----	39 45 13.1	91 57 44.5	(2,949)
T-rd. S. -----	39 45 12.8	91 57 08.8	2,760
Center of bridge -----	39 45 12.6	91 56 52.8	1,260
T-rd. N. -----	39 45 11.8	91 55 59.6	4,160
T. 57 N., R. 9 W., near quarter cor. between secs. 8 and 9, E. of County Route T at rd. W., in concrete post; standard tablet stamped "83 C W A 1934" -----	39 45 11.49	91 55 09.36	3,924
T. 57 N., R. 9 W., cor. secs. 4, 5, 8, and 9, crossroads -----	39 45 37.3	91 55 08.9	2,608
Rd. at fences N. and S. -----	39 45 37.6	91 54 19.2	3,877
Center of culvert -----	39 45 37.7	91 53 49.4	2,350
Rd. at fence S. -----	39 45 37.6	91 53 21.8	2,154

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 57 N., R. 9 W., cor. secs. 2, 3, 10, and 11, 20 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "82 C W A 1934" -----	39 45 37.44	91 52 56.59	1,972
Rd. at fences N. and S. -----	39 45 37.1	91 52 22.8	2,639
Crossroads -----	39 45 36.7	91 51 49.3	2,620
Rd. at fence S. -----	39 45 36.4	91 51 20.4	2,254
Crossroads -----	39 45 36.1	91 50 41.8	3,015
Rd. at fences N. and S. -----	39 45 35.2	91 50 07.3	2,693
Rd. at fence S. -----	39 45 35.0	91 49 54.4	1,013
T. 57 N., R. 8 W., W. sixteenth cor. between secs. 5 and 8, about 0.5 mi. W. of County Route K, 25 ft. S. of rd., in concrete post; standard tablet stamped "61 C W A 1934" -----	39 45 34.62	91 49 18.37	2,813
T-rd. W. -----	39 45 35.0	91 48 46.7	2,475
Rd. at fence E. -----	39 45 52.4	91 48 46.4	1,760
T-rd. S. -----	39 46 27.2	91 48 45.7	3,523
T-rd. N. -----	39 46 27.2	91 48 30.2	1,210
Center of bridge -----	39 46 26.8	91 47 52.3	2,955
Warren, 2 mi. W. of, in sec. 4, T. 57 N., R. 8 W., 160 ft. SE. of SE. corner of church, 30 ft. S. of rd., near entrance to cemetery, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "60 C W A 1934" -----	39 46 26.25	91 47 25.98	2,060
T-rd. S. -----	39 46 26.2	91 46 47.7	2,991
T-rd. N. -----	39 46 26.0	91 46 13.9	2,635
Rd. at fence N. -----	39 46 25.8	91 45 44.2	2,322
73 C W A 1934 (previously described) -----	39 46 25.76	91 45 22.54	1,692

6. FROM SEC. 35, T. 59 N., R. 8 W., WEST INTO SHELBYVILLE QUADRANGLE AT SEC. 27, T. 59 N., R. 10 W. (by H. W. Gross in 1935)

75 C W A 1934 (previously described) -----	39 52 04.14	91 45 00.19	.....
T-rd. N. -----	39 52 03.9	91 45 34.5	2,676
Rd. at fences N. and S. -----	39 52 04.0	91 46 08.4	2,640
T-rd. E. -----	39 52 04.4	91 46 59.0	3,950
Rd. at fence S. -----	39 52 05.3	91 47 49.8	3,959
T. 59 N., R. 8 W., quarter cor. between secs. 32 and 33, 32 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "90 C W A 1934" -----	39 52 01.94	91 48 23.31	2,638
Center of bridge -----	39 52 05.4	91 48 43.2	1,589
Rd. fork W. -----	39 52 32.5	91 49 38.1	5,082
T. 59 N., Rs. 8 and 9 W., approximate cor. secs. 25, 30, 31, and 36, rd. at fence N. on Marion-Shelby county line -----	39 52 33.2	91 50 31.3	4,156
T. 59 N., R. 9 W., near quarter cor. between secs. 25 and 36, 25 ft. S. and 10 ft. E. from T-rd. N., in front of dwelling, 3 ft. N. of yard fence, in concrete post; standard tablet stamped "89 C W A 1934" -----	39 52 33.22	91 51 05.20	2,641
T-rd. S. -----	39 52 33.6	91 51 22.1	1,316
T-rd. N. -----	39 52 33.9	91 52 29.3	5,240
Center of bridge, 100 ft. W. of T-rd. N. -----	39 52 08.0	91 52 46.4	2,940
Rd. at fence S. -----	39 52 08.5	91 53 20.8	2,690
T. 59 N., R. 9 W., 0.1 mi. W. of quarter cor. between secs. 33 and 34, 0.5 mi. S. and 6.5 mi. E. from Bethel, 42 ft. S. and 103 ft. E. from T-rd. S., in concrete post; standard tablet stamped "88 C W A 1934" -----	39 52 08.34	91 54 00.83	3,118
Rd. corner from S.-W. -----	39 52 21.9	91 54 11.2	1,594
T-rd. E. -----	39 52 22.2	91 54 44.8	2,623
Rd. fork SW. -----	39 52 43.1	91 54 47.5	2,123
Junction of dim rd. N. and private rd. S. -----	39 52 35.7	91 55 35.0	3,775
T. 59 N., R. 9 W., cor. secs. 29, 30, 31, and 32, 0.5 mi. S. and 4.5 mi. E. from Bethel, 40 ft. S. and 36 ft. E. from crossroads, in concrete post; standard tablet stamped "87 C W A 1934" -----	39 52 35.48	91 56 08.33	2,600
Junction of private rd. N. -----	39 52 36.4	91 56 43.0	2,706
T. 59 N., R. 10 W., E. cor. secs. 25 and 36, rd. corner from N.-W., 50 ft. S. of rd. corner from E.-S. at W. cor. secs. 30 and 31, T. 59 N., R. 9 W. -----	39 52 36.6	91 57 17.6	2,694
T-rd. S. -----	39 52 37.1	91 58 09.0	4,010
T. 59 N., R. 10 W., E. sixteenth cor. between secs. 26 and 35, stone at rd. corner from E.-N. -----	39 53 03.8	91 58 42.3	3,749
T. 59 N., R. 10 W., near center sec. 26, 2 mi. E. of Bethel, 78 ft. S. and 74 ft. E. from SE. corner of Haman School, 38 ft. N. and 65 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "86 C W A 1934" -----	39 53 04.38	91 58 59.92	1,374
T-rd. N. -----	39 53 04.4	91 59 32.4	2,536

(Continued in Shelbyville quadrangle; see line 5.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

7. FROM SHELBYVILLE QUADRANGLE AT SEC. 10, T. 59 N., R. 10 W., NORTH TO SEC. 22, T. 60 N., R. 10 W. (by H. W. Gross in 1935)
(Continued from Shelbyville quadrangle; see line 5.)

Center of bridge -----	39 56 03.2	91 59 55.2	(4,851)
Crossroads -----	39 56 34.1	91 59 44.4	3,237
Tps. 59 and 60 N., R. 10 W., E. sixteenth cor. between secs. 3 and 34, 4.8 mi. N. and 1.2 mi. E. from Bethel, 27 ft. S. and 31 ft. W. from T-rd. S. on Knox-Shelby county line, in corner of field, in concrete post; standard tablet stamped "T 2 1935" -----	39 56 59.66	91 59 44.12	2,586
Rd. corner from W.-N. -----	39 57 19.9	91 59 28.2	2,480
Crossroads -----	39 57 51.1	91 59 25.8	3,160
T-rd. W. -----	39 58 17.3	91 59 24.8	2,650
Lane at NE. corner of cemetery -----	39 58 46.2	91 59 23.8	2,931
Prim Trav Sta No 5 1905 (previously described) -	39 59 11.78	91 59 50.80	3,334

8. FROM WARREN SOUTHEAST INTO PALMYRA QUADRANGLE AT SEC. 12, T. 57 N., R. 8 W. (by C. D. Craig in 1935)

73 C W A 1934 (previously described) -----	39 46 25.76	91 45 22.54	.....
Rd. at fence E. -----	39 45 49.7	91 45 30.2	3,694
Warren, 1.5 mi. S. of, E. sixteenth cor. sec. 11, T. 57 N., R. 8 W., 30 ft. N. and 20 ft. E. from T-rd. N., 13 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T 16 C 1935" -----	39 45 07.93	91 45 23.65	4,263

(Continued in Palmyra quadrangle; see line 7.)

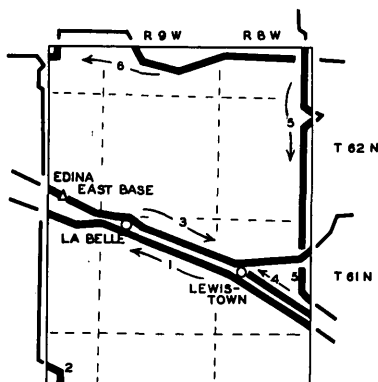
9. FROM PALMYRA QUADRANGLE AT SEC. 1, T. 57 N., R. 8 W., WEST TO WARREN (by C. D. Craig in 1936)
(Continued from Palmyra quadrangle; see line 9.)

Tps. 57 and 58 N., R. 8 W., approximate cor. secs. 1, 2, 35, and 36, crossroads -----	39 46 25.4	91 45 05.5	(2,625)
73 C W A 1934 (previously described) -----	39 46 25.76	91 45 22.54	1,334

Magnetic declination 5° 47' E.

La BELLE QUADRANGLE
(Latitude 40°00'-40°15'; longitude 91°45'-92°00')

Knox and Lewis Counties



1. FROM CANTON QUADRANGLE NORTHWEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO EDINA QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Canton quadrangle; see line 1.)

T. 61 N., R. 8 W., quarter cor. between secs. 26 and 27 -----	40 03 23.7	91 46 01.0	(23,980)
Lewistown, R.R. at sta. -----	40 05 07.7	91 48 55.9	17,188
T. 61 N., R. 8 W., W. cor. secs. 7 and 18 -----	40 05 36.5	91 50 14.9	6,796
T. 61 N., R. 9 W., cor. secs. 3, 4, 9, and 10 ---	40 06 29.6	91 53 38.9	16,738
La Belle, R.R. at sta. -----	40 07 01.8	91 54 58.6	6,998

(Continued in Edina quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

2. FROM NEWARK QUADRANGLE AT SEC. 14, T. 60 N., R. 10 W., NORTH INTO EDINA QUADRANGLE AT SEC. 10, T. 60 N., R. 10 W. (by Roy E. Keim in 1934)

Prim Trav Sta No 5 1905 (In Newark quadrangle; see line 1.)	39 59 11.78	91 59 50.80	.....
Rd. at fences E. and W. -----	40 00 26.6	91 59 21.4	7,909
Crossroads -----	40 00 52.3	91 59 21.0	2,600
Rd. at fences N. and S. -----	40 00 53.0	91 59 54.6	2,621

(Continued in Edina quadrangle; see line 3.)

3. FROM EDINA QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 6 TO SEC. 16, T. 61 N., R. 8 W., THENCE EAST ALONG STATE HIGHWAY 96 INTO CANTON QUADRANGLE (by J. P. Anderson in 1934-35)

(Continued from Edina quadrangle; see line 4.)

Edina East Base triangulation sta.; U.S.C. & G.S. standard disk stamped "Edina East Base 1934" --	40 08 02.67	91 58 52.57	(7,901)
Crossroad -----	40 07 45.6	91 58 06.5	4,476
U.S.C. & G.S. standard disk stamped "R 15 1933" --	40 07 32.58	91 56 59.66	5,356
Junction of rd. S. -----	40 07 25.6	91 55 49.6	5,491
U.S.C. & G.S. standard disk stamped "Q 15 1933" --	40 07 02.93	91 55 02.62	4,313
La Belle, junction of County Route D -----	40 07 00.2	91 54 46.2	1,308
Junction of rds. S. and E. -----	40 06 55.7	91 54 12.4	2,660
Crossroad -----	40 06 36.5	91 53 39.1	3,245
U.S.C. & G.S. standard disk stamped "P 15 1933" --	40 06 24.34	91 53 04.65	2,944
Crossroad -----	40 06 10.1	91 52 13.8	4,212
Crossroad -----	40 06 03.2	91 51 51.4	1,870
U.S.C. & G.S. standard disk stamped "N 15 1933" --	40 05 48.51	91 51 05.63	3,859
Crossroad -----	40 05 33.5	91 50 15.3	4,196
Crossroad -----	40 05 22.4	91 49 39.3	3,019
U.S.C. & G.S. standard disk stamped "M 15 1933" --	40 05 05.78	91 48 47.90	4,338
Junction of rd. S. -----	40 05 09.4	91 48 14.3	2,638
Junction of rd. N. -----	40 05 09.3	91 47 40.8	2,505
Crossroad -----	40 05 08.7	91 46 33.1	5,265
Lewistown, 3.2 mi. E. of, 150 ft. N. and 700 ft. E. from N.-S. crossroad, 48 ft. S. of highway, in concrete post; standard tablet stamped "1428 C W A 1934" -----	40 05 11.24	91 45 16.06	5,995

(Continued in Canton quadrangle; see line 2.)

4. FROM CANTON QUADRANGLE NORTHWEST ALONG STATE HIGHWAY 6 TO LEWISTOWN (by J. P. Anderson in 1934-35)

U.S.C. & G.S. standard disk stamped "K 15 1933" (In Canton quadrangle; see line 5.)	40 02 32.99	91 44 54.69	.....
Crossroad -----	40 03 25.4	91 46 01.3	7,410
U.S.C. & G.S. standard disk stamped "L 15 1933" --	40 03 50.15	91 46 40.58	3,957
Crossroad -----	40 04 09.4	91 47 08.5	2,919
Junction of rd. S. (previously described) -----	40 05 09.4	91 48 14.3	7,932

5. FROM WYAONDA QUADRANGLE AT SEC. 22, T. 63 N., R. 8 W., SOUTH TO SEC. 26, T. 61 N., R. 8 W., THENCE SOUTHEAST ALONG STATE HIGHWAY 6 INTO CANTON QUADRANGLE (by C. D. Craig in 1936)

(Continued from Wyaonda quadrangle; see line 5.)

Rd. at fences E. and W. -----	40 14 49.2	91 45 40.1	(2,694)
Williamstown, 1.5 mi. E. of, cor. secs. 22, 23, 26, and 27, T. 63 N., R. 8 W., 96 ft. N. and 15 ft. E. from crossroads, 4 ft. E. of fence, in concrete post; standard tablet stamped "T T 116 C 1936" -----	40 14 23.83	91 45 40.38	2,568
T. 63 N., R. 8 W., cor. secs. 26, 27, 34, and 35, T-rd. E. -----	40 13 30.1	91 45 41.8	5,442
T. 63 N., R. 8 W., S. cor. secs. 34 and 35, T-rd. E. -----	40 12 39.1	91 45 43.0	5,158
County Route A at fences E. and W. -----	40 12 09.6	91 45 34.1	3,069
County Route A at fences E. and W. -----	40 11 41.8	91 45 09.4	3,400

(For balance in Canton quadrangle, see line 7.)

T-rd. S. -----	40 11 17.4	91 45 50.4	(4,272)
T. 62 N., R. 8 W., cor. secs. 10, 11, 14, and 15, T-rd. E. -----	40 10 50.4	91 45 51.9	2,734
Center of bridge over slough -----	40 09 56.3	91 46 27.7	6,155
T. 62 N., R. 8 W., in NE 1/4 sec. 22, at S. edge of Fabius River Valley, 15 ft. N. and 15 ft. E. from rd. at E. end of 200-ft. jog in N.-S. rd., 4 ft. S. and 6 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 117 C 1936" -----	40 09 38.51	91 46 25.51	1,807

* It was reported by F. Y. Brown, Mar. 19, 1937, that this monument had been destroyed.

Station	Latitude	Longitude	Distance
Rd. corner from N.-E., 12 ft. W. of fence S. ----	40 09 18.4	91 46 11.8	2,295
Rd. at fence W. ----	40 09 04.7	91 45 45.0	2,504
T. 62 N., R. 8 W., cor. secs. 26, 27, 34, and 35, rd. at hedge fences E. and W. ----	40 06 12.8	91 45 56.2	5,322
T-rd. N. ----	40 07 59.3	91 45 56.7	1,366
T. 62 N., R. 8 W., S. sixteenth cor. sec. 35, 260 ft. N. and 15 ft. W. from T-rd. E., 2 ft. N. and 10 ft. W. from fence corner, in concrete post; standard tablet stamped "T 118 C 1936" -	40 07 35.85	91 45 23.33	3,517
T. 61 N., R. 8 W., N. quarter cor. sec. 2, E. end of jog in rd. ----	40 07 20.0	91 45 21.3	1,609
T. 61 N., R. 8 W., quarter cor. between secs. 2 and 11, rd. at fences E. and W. ----	40 06 26.1	91 45 23.4	5,462
Rd. at fence W. ----	40 05 30.5	91 45 24.5	5,626
1428 C W A 1934 (previously described) ----	40 05 11.24	91 45 16.06	2,056
T-rd. E. ----	40 04 41.7	91 45 25.4	3,074
Rd. corner from N.-W. ----	40 03 49.8	91 45 29.6	5,268
T-rd. E., 12 ft. N. of rd. at hedge fence W. at cor. secs. 22, 23, 26, and 27, T. 61 N., R. 8 W. ----	40 03 50.1	91 46 00.7	2,418
State Highway 6 at crossroad (previously described) ----	40 03 25.4	91 46 01.3	2,500
State Highway 6 at fence N. ----	40 03 00.0	91 45 28.0	3,649

(Continued in Canton quadrangle; see line 5.)

6. FROM CANTON QUADRANGLE AT SEC. 23, T. 63 N., R. 8 W., WEST INTO EDINA QUADRANGLE AT SEC. 22, T. 63 N., R. 10 W. (by C. D. Craig in 1936)
(Continued from Canton quadrangle; see line 6.)

T T 116 C 1936 (previously described) ----	40 14 23.83	91 45 40.38	(4,914)
Rd. at hedge fence S. ----	40 14 23.7	91 46 53.7	5,683
T-rd. N. ----	40 14 25.0	91 47 10.8	1,333
Williamstown, in W. side of stone foundation of Southern Methodist Church; standard tablet stamped "721 A" ----	40 14 23.91	91 47 56.86	3,577
Williamstown, street intersection at cor. secs. 20, 21, 28, and 29, T. 63 N., R. 8 W. ----	40 14 26.1	91 48 01.8	444
T. 63 N., R. 8 W., cor. secs. 19, 20, 29, and 30, crossroads ----	40 14 26.6	91 49 09.2	5,228
Rd. at fence N. at N. end of 120-ft. jog in rd. - Williamstown, 3.3 mi. W. of, quarter cor. between secs. 25 and 26, T. 63 N., R. 9 W., 10 ft. S. and 20 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 123 C 1936" ----	40 13 59.61	91 51 24.62	5,979
T-rd. S. ----	40 14 00.0	91 51 58.8	2,655
Rd. corner from E.-S. at fence W. ----	40 13 48.9	91 52 16.2	1,753
T. 63 N., R. 9 W., cor. secs. 26, 27, 34, and 35, rd. corner from E.-N. at fence S. near Dare School ----	40 13 36.2	91 52 33.6	1,867
T-rd. N., 10 ft. W. of fence S. ----	40 13 49.8	91 53 07.2	2,945
T-rd. S. ----	40 14 03.8	91 53 57.8	4,171
T. 63 N., R. 9 W., quarter cor. between secs. 28 and 29, 21 ft. N. and 23 ft. W. from crossroads; iron post stamped "709 A" ----	40 14 05.11	91 54 46.23	3,917
T. 63 N., R. 9 W., cor. secs. 20, 21, 28, and 29, rd. at hedge fence W. and wire fence E. ----	40 14 31.1	91 54 47.9	2,632

(For balance in Wyaconda quadrangle, see line 6.)

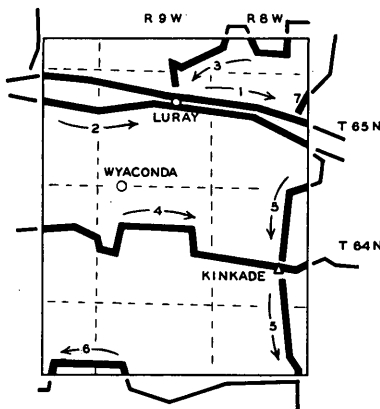
Rd. fork E. ----	40 14 36.9	91 59 50.5	(4,193)
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(Continued in Edina quadrangle; see line 7.)

Magnetic declination 5° 19' E.

WYACONDA QUADRANGLE
(Latitude 40°15'-40°30'; longitude 91°45'-92°00')

Clark, Knox, Lewis, and Scotland Counties



1. FROM MEMPHIS QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO KAHOKA QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Memphis quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Granger, R.R. at sta. -----	40 27 59.7	91 58 30.6	.....
T. 65 N., R. 10 W., center sec. 2 -----	40 28 05.4	91 58 30.0	578
R.R. at line between secs. 1 and 6, T. 65 N., Rs. 9 and 10 W. -----	40 27 41.1	91 56 42.2	8,688
Luray, R.R. at sta. -----	40 27 02.8	91 52 27.6	20,060
T. 65 N., R. 9 W., quarter cor. between secs. 11 and 14 -----	40 26 41.1	91 51 45.2	3,944
Ashton, R.R. at sta. -----	40 26 46.4	91 48 24.8	15,500
T. 65 N., R. 8 W., cor. secs. 8, 9, 16, and 17 --	40 26 41.5	91 47 58.8	2,070
Crossing of Atchison, Topeka & Santa Fe Ry. -----	40 26 17.8	91 46 31.2	7,186

(Continued in Kahoka quadrangle; see line 1.)

2. FROM MEMPHIS QUADRANGLE EAST ALONG STATE HIGHWAY 4 INTO KAHOKA QUADRANGLE
(by S. T. Tudor in 1935)
(Continued from Memphis quadrangle; see line 4.)

Highway at fence N. -----	40 27 13.4	91 59 33.9	(2,630)
Highway at fences N. and S. -----	40 27 12.6	91 59 00.3	2,600
T. 65 N., R. 10 W., E. sixteenth cor. sec. 11, 45 ft. S. and 30 ft. W. from crossroad, in concrete post; standard tablet stamped "1512 E R A 1935" -----	40 27 12.00	91 58 09.51	3,926
Highway at fences N. and S. -----	40 27 12.6	91 57 17.3	4,038
T. 65 N., Rs. 9 and 10 W., approximate quarter cor. between secs. 7 and 12, junction of rd. S. on Clark-Scotland county line -----	40 27 12.0	91 56 42.5	2,690
Highway at fence N. -----	40 27 12.0	91 56 04.5	2,940
Crossroad -----	40 27 20.4	91 55 27.4	2,990
T. 65 N., R. 9 W., in NE 1/4 sec. 8, 43 ft. S. and 175 ft. E. from junction of County Route A, in concrete post; standard tablet stamped "1513 E R A 1935" -----	40 27 20.77	91 54 58.22	2,256
Highway at fence S. -----	40 27 17.6	91 54 25.9	2,517
Highway at fence S. -----	40 27 08.4	91 53 46.2	3,210
Crossroad -----	40 27 03.9	91 53 27.4	1,520
Crossroad -----	40 26 58.4	91 52 53.9	2,648
T. 65 N., R. 9 W., cor. secs. 10, 11, 14, and 15, junction of rd. N. -----	40 26 45.6	91 52 20.0	2,926
T. 65 N., R. 9 W., quarter cor. between secs. 11 and 14, 46 ft. S. and 21 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1514 E R A 1935" -----	40 26 40.17	91 51 45.20	2,748
T. 65 N., R. 9 W., cor. secs. 11, 12, 13, and 14, highway at fence N. -----	40 26 40.6	91 51 11.0	2,648
Highway at fences N. and S. -----	40 26 40.5	91 50 36.4	2,670
T. 65 N., Rs. 8 and 9 W., approximate cor. secs. 7, 12, 13, and 18, junction of rd. S. -----	40 26 39.9	91 50 01.8	2,680
Crossroad -----	40 26 39.1	91 49 24.8	2,860
T. 65 N., R. 8 W., cor. secs. 7, 8, 17, and 18, highway at fence N. -----	40 26 38.2	91 48 48.6	2,799

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 65 N., R. 8 W., in SW 1/4 sec. 8, 45 ft. S. and 45 ft. E. from crossroad, in concrete post; standard tablet stamped "1515 E R A 1935" -----	40 26 37.23	91 48 24.04	1,901
Highway at fence N. -----	40 26 34.9	91 47 41.6	3,293
T. 65 N., R. 8 W., center sec. 16, crossroad -----	40 26 19.2	91 47 07.8	3,054
Crossroad -----	40 25 55.6	91 46 34.0	3,545
T. 65 N., R. 8 W., center sec. 22, 160 ft. N. and 140 ft. W. from rd. corner N.-W., 130 ft. SW. of highway at curve, in concrete post; standard tablet stamped "1516 E R A 1935" -----	40 25 18.30	91 46 02.51	4,491
Junction of rd. S. -----	40 25 16.2	91 45 25.9	2,638

(Continued in Kahoka quadrangle; see line 2.)

3. FROM KEOSAUQUA QUADRANGLE AT SEC. 26, T. 66 N., R. 8 W., WEST AND SOUTH
TO SEC. 11, T. 65 N., R. 9 W. (by C. D. Craig in 1936)
(Continued from Keosauqua quadrangle; see line 3.)

Rd. corner from W.-N. -----	40 29 38.4	91 45 40.2	(5,308)
Medill, 3.5 mi. N. of, in SE 1/4 sec. 27, T. 66 N., R. 8 W., at top of hill, 38 ft. W. of rd. forks, 2 ft. W. of fence, in concrete post; standard tablet stamped "T T 101 C 1936" -----	40 29 10.78	91 45 40.79	2,793
Rd. at fences N. and S. -----	40 29 19.6	91 46 05.9	2,133
T-rd. S. -----	40 29 15.0	91 46 31.3	2,019
T. 66 N., R. 8 W., quarter cor. between secs. 28 and 33, 21 ft. N. and 31 ft. E. from T-rd. S., in SE. corner of yard of J. O. Murphy; iron post stamped "713 A" -----	40 29 14.42	91 47 05.50	2,644
Rd. corner from E.-N. -----	40 29 21.4	91 47 39.9	2,750

(For balance in Keosauqua quadrangle; see line 3.)

T-rd. W. -----	40 29 17.0	91 49 11.5	(4,373)
T. 66 N., R. 9 W., E. cor. secs. 25 and 36, rd. at fence S., 114 ft. N. of rd. E. at W. cor. secs. 30 and 31, T. 66 N., R. 8 W. -----	40 29 18.7	91 49 59.2	3,691
T. 66 N., R. 9 W., in SW 1/4 sec. 25, 0.1 mi. N. of bridge over creek, 12 ft. N. and 30 ft. W. from rd. corner from E.-S., 4 ft. S. of fence, in concrete post; standard tablet stamped "T T 111 C 1936" -----	40 29 19.06	91 50 59.47	4,656
T-rd. E. -----	40 26 53.6	91 51 59.4	5,296
T-rd. N. -----	40 28 27.6	91 51 59.8	2,635
T. 66 N., R. 9 W., S. cor. secs. 34 and 35, rd. at fence N., 140 ft. E. of rd. at fence S. -----	40 28 27.7	91 52 14.5	1,133
Rd. corner from E.-S. -----	40 26 26.0	91 52 39.6	1,941
Luray, 1.4 mi. NE. of, near center sec. 3, T. 65 N., R. 9 W., 28 ft. S. and 60 ft. W. from rd. fork W., 5 ft. E. of hedge fence, in concrete post; standard tablet stamped "T T 112 C 1936" -----	40 27 59.8	91 52 42.9	2,662
T-rd. N. -----	40 27 33.8	91 52 38.8	2,648
Chicago, Burlington & Quincy R.R. at rd. crossing Luray, Chicago, Burlington & Quincy R.R. at sta. semaphore -----	40 27 20.0	91 52 53.8	1,816
1514 E R A 1935 (previously described) -----	40 27 02.2	91 52 27.8	2,699
	40 26 40.17	91 51 45.20	3,976

4. FROM MEMPHIS QUADRANGLE AT SEC. 15, T. 64 N., R. 10 W., EAST INTO KAHOKA
QUADRANGLE AT SEC. 26, T. 64 N., R. 8 W. (by C. D. Craig in 1936)
(Continued from Memphis quadrangle; see line 10.)

Rd. at fence N. -----	40 21 34.1	91 59 42.0	(2,649)
Rd. at fence N. -----	40 21 32.9	91 58 52.5	3,828
T. 64 N., R. 10 W., cor. secs. 11, 12, 13, and 14, 25 ft. N. and 37 ft. E. from crossroads, 2 ft. N. of fence, in concrete post; standard tablet stamped "T T 104 C 1936" -----	40 21 32.83	91 57 57.82	4,236
Rd. at fence N. -----	40 21 32.2	91 57 24.7	2,565
T. 64 N., R. 10 W., E. cor. secs. 12 and 13, T-rd. W., 57 ft. N. of hedge fence E. -----	40 21 31.4	91 56 51.1	2,600
T. 64 N., R. 9 W., S. sixteenth cor. on W. line sec. 16, stone at center of T-rd. E. -----	40 20 52.0	91 56 52.4	3,988
Rd. corner from N.-E. -----	40 20 38.2	91 56 21.4	2,779
T. 64 N., R. 9 W., cor. secs. 17, 18, 19, and 20, 15 ft. S. and 34 ft. E. from T-rd. W., 1 ft. N. and 15 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 105 C 1936" -----	40 20 37.29	91 55 46.74	2,685
T. 64 N., R. 9 W., cor. secs. 7, 8, 17, and 18, T-rd. E. -----	40 21 29.3	91 55 45.6	5,268
Rd. at hedge fence N. and wire fence S. -----	40 21 29.0	91 55 12.2	2,586
Rd. at fence N. -----	40 21 28.5	91 54 38.7	2,589
Crossroads -----	40 21 28.0	91 54 05.6	2,563
T. 64 N., R. 9 W., cor. secs. 9, 10, 15, and 16, 31 ft. S. and 2 ft. W. from rd. at fences N. and S., 9 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 106 C 1936" -----	40 21 27.14	91 53 32.13	2,596

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Rd. at fences N. and S. -----	40 21 26.7	91 52 58.4	2,615
Crossroads -----	40 21 26.4	91 52 41.5	1,303
Rd. at hedge fences N. and S. -----	40 21 25.6	91 51 50.6	3,945
T. 64 N., R. 9 W., cor. secs. 11, 12, 13, and 14, -----			
T-rd. W. at hedge fence E. -----	40 21 25.2	91 51 16.5	2,638
T-rd. E. -----	40 20 59.5	91 51 16.9	2,596
T. 64 N., R. 9 W., cor. secs. 13, 14, 23, and 24, -----			
21 ft. N. and 42 ft. W. from T-rd. W., 3 ft. -----			
N. and 25 ft. W. from fence corner, in concrete -----			
post; standard tablet stamped "T T 107 C 1936" -----	40 20 33.35	91 51 18.03	2,649
Rd. at fences N. and S. -----	40 20 19.3	91 50 43.9	3,003
T-rd. W. -----	40 20 19.8	91 50 10.0	2,622
T-rd. E., 37 ft. S. of rd. at fence E. at E. -----			
quarter cor. sec. 24, T. 64 N., R. 9 W. -----	40 20 06.2	91 50 10.3	1,370
Rd. at fences N. and S. -----	40 20 09.2	91 49 36.0	2,667
T-rd. N. -----	40 20 13.1	91 49 06.9	2,287
T-rd. S. -----	40 20 05.0	91 48 29.1	3,045
T-rd. W. -----	40 19 57.4	91 47 52.3	2,948
Neeper, in SE. corner of churchyard; iron post -----			
stamped "730 A" -----	40 19 57.34	91 47 30.40	1,698
U.S.C. & G.S. standard disk stamped "Kinkade Azi -----			
1934" -----	40 20 01.42	91 47 17.61	1,074
Kinkade triangulation sta.; U.S.C. & G.S. -----			
standard disk stamped "Kinkade 1934" -----	40 19 54.98	91 46 57.00	1,725
Crossroads -----	40 19 36.0	91 46 26.8	3,029
T-rd. S. -----	40 19 22.7	91 45 52.1	3,008
Rd. fork S. -----	40 19 21.6	91 45 00.0	4,034

(Continued in Kahoka quadrangle; see line 7.)

5. FROM KAHOKA QUADRANGLE AT SEC. 35, T. 65 N., R. 8 W., SOUTH INTO
La BELLE QUADRANGLE AT SEC. 22, T. 63 N., R. 8 W. (by C. D. Craig
in 1936)

(Continued from Kahoka quadrangle; see line 8.)

T-rd. S. -----	40 23 05.1	91 45 07.6	(3,628)
T-rd. N. -----	40 22 38.8	91 45 08.1	2,661
T. 64 N., R. 8 W., W. sixteenth cor. between -----			
secs. 2 and 11, 277 ft. N. and 25 ft. W. from -----			
crossroads, 2 ft. N. and 5 ft. E. from fence -----			
corner, in concrete post; standard tablet -----			
stamped "T T 114 C 1936" -----	40 22 15.17	91 45 14.30	2,435
Rd. at fences E. and W. -----	40 21 46.3	91 45 15.4	2,922
T-rd. N. at fence S. -----	40 21 20.1	91 45 15.8	2,650
T. 64 N., R. 8 W., cor. secs. 10, 11, 14, and 15, -----			
rd. at fence N. -----	40 21 20.3	91 45 33.4	1,355
T-rd. W. -----	40 20 40.8	91 45 51.7	4,243
T-rd. E. at fence W. -----	40 20 41.3	91 46 16.2	1,904
Rd. at fences E. and W. -----	40 20 15.2	91 46 17.5	2,643
Kinkade triangulation sta. (previously described) -----	40 19 54.98	91 46 57.00	3,680
Crossroads -----	40 18 43.6	91 46 20.1	7,770
Rd. at fences E. and W. -----	40 18 17.3	91 46 15.8	2,683
Rd. at fence E. -----	40 17 50.9	91 46 10.6	2,694
T-rd. N. -----	40 17 42.0	91 46 10.8	907
Rd. at lane E. at hedge fence W. -----	40 17 28.6	91 45 36.7	2,972
T. 63 N., R. 8 W., cor. secs. 2, 3, 10, and 11, -----			
78 ft. N. and 23 ft. W. from T-rd. W., in con- -----			
crete post; standard tablet stamped "T T 115 -----			
C 1936" -----	40 17 02.76	91 45 37.54	2,616
T-rd. E. -----	40 16 35.4	91 45 37.9	2,768
T. 63 N., R. 8 W., cor. secs. 10, 11, 14, and 15, -----			
T-rd. E. -----	40 16 08.8	91 45 38.4	2,691
T-rd. W. -----	40 15 42.1	91 45 38.9	2,700
T. 63 N., R. 8 W., cor. secs. 14, 15, 22, and 23, -----			
T-rd. E. on Clark-Lewis county line -----	40 15 15.8	91 45 39.4	2,660

(Continued in La Belle quadrangle; see line 5.)

6. FROM La BELLE QUADRANGLE AT SEC. 20, T. 63 N., R. 9 W., WEST INTO
La BELLE QUADRANGLE AT SEC. 22, T. 63 N., R. 10 W. (by C. D. Craig
in 1936)

(Continued from La Belle quadrangle; see line 6.)

T. 63 N., R. 9 W., cor. secs. 16, 17, 20, and 21, -----			
T-rd. W. at abandoned rd. E. -----	40 15 23.2	91 54 46.6	(5,272)
T. 63 N., R. 9 W., cor. secs. 17, 18, 19, and 20, -----			
T-rd. S. -----	40 15 24.4	91 55 53.5	5,182
T. 63 N., R. 9 W., quarter cor. between secs. 18 -----			
and 19, 18 ft. S. and 75 ft. W. from T-rd. S. -----			
and lane N., on Clark-Lewis county line, in -----			
concrete post; standard tablet stamped "T T -----			
124 C 1936" -----	40 15 25.36	91 56 28.71	2,735
T. 63 N., R. 9 and 10 W., approximate cor. secs. -----			
13, 18, 19, and 24, T-rd. S. at fence N. at W. -----	40 15 25.9	91 57 02.4	2,615

Station	Latitude	Longitude	Distance
T-rd. S., 200 ft. E. of T-rd. N. -----	° ' "	° ' "	Feet
T. 63 N., R. 10 W., cor. secs. 14, 15, 22, and 23, T-rd. E. -----	40 15 26.4	91 58 06.3	4,952
Colony, in NW 1/4 sec. 23, T. 63 N., R. 10 W., 30 ft. N. and 16 ft. W. from NW corner of schoolhouse, 25 ft. E. of rd., in concrete post; standard tablet stamped "T T 125 C 1936"-----	40 15 27.8	91 59 16.2	5,426
Rd. fork NW. -----	40 15 19.91 40 15 16.0	91 59 16.12 91 59 44.1	799 2,179

(Continued in La Belle quadrangle; see line 6.)

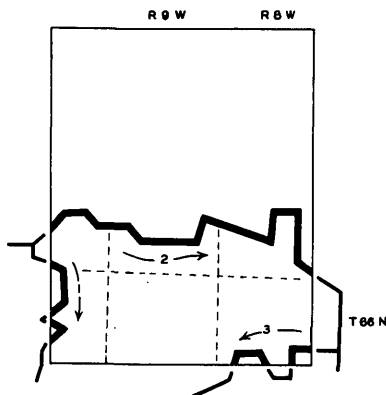
7. FROM KAHOKA QUADRANGLE SOUTHWEST ALONG ATCHISON, TOPEKA & SANTA FE RAILWAY TO SEC. 22, T. 65 N., R. 8 W. (by C. D. Craig in 1936)
(Continued from Kahoka quadrangle; see line 5.)

R.R. at fences N. and S. -----	40 26 39.3	91 45 07.1	(3,719)
R.R. at rd. crossing -----	40 26 49.7	91 45 41.3	2,846
Crossing of Chicago, Burlington & Quincy R.R. --- Medill, 10 ft. S. and 466 ft. W. from crossing of Atchison, Topeka & Santa Fe Ry. and Chicago, Burlington & Quincy R.R., in SW. side of concrete base of semaphore; standard tablet stamped "703 A" -----	40 26 17.6	91 46 31.2	5,034
U.S.C. & G.S. standard disk stamped "G 85 1935"-----	40 26 19.07	91 46 36.97	467
1516 E R A 1935 (previously described) -----	40 26 05.22 40 25 18.50	91 46 47.33 91 46 02.51	1,615 5,878

Magnetic declination 5° 29' E.

KEOSAUQUA QUADRANGLE *
(Latitude 40°30'-40°45'; longitude 91°45'-92°00')

Clark and Scotland Counties



1. FROM CANTRIL QUADRANGLE AT SEC. 33, T. 67 N., R. 10 W., SOUTH INTO CANTRIL QUADRANGLE AT SEC. 15, T. 66 N., R. 10 W. (by H. W. Gross in 1935-36)
(Continued from Cantril quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
Tps. 66 and 67 N., R. 10 W., approximate cor. secs. 3, 4, 33, and 34, T-rd. S. at fence N. ---	° ' "	° ' "	Feet
Crossroads -----	40 33 48.5	91 59 58.5	(2,764)
Crossroads -----	40 33 21.3	91 59 58.3	2,753
Crossroads -----	40 32 29.3	91 59 59.8	5,260

(For balance in Cantril quadrangle, see line 1.)

T. 66 N., R. 10 W., in W 1/2 sec. 15, 21 ft. S. and 14 ft. E. from T-rd. N., 29 ft. E. of NE corner of farmhouse of Roy Smith, 4 ft. N. of fence, in concrete post; standard tablet stamped "T T 24 G 1935" -----	40 31 36.68	91 59 44.67	(2,965)
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(Continued in Cantril quadrangle; see line 1.)

*The greater part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

2. FROM CANTRIL QUADRANGLE AT POINT NEAR SEC. 21, T. 67 N., R. 10 W.; EAST
TO SEC. 15, T. 67 N., R. 8 W., THENCE SOUTH ALONG STATE HIGHWAY 81
INTO DONNELSON QUADRANGLE (by C. D. Craig in 1936)
(Continued from Cantril quadrangle; see line 2.)

Center of bridge -----	40 36 37.4	91 58 57.4	(5,127)
T-rd. W. -----	40 36 44.2	91 58 02.4	4,294
Rd. corner from N.-E., 33 ft. N. of T-rd. W. ----	40 36 18.8	91 58 02.4	2,564
T-rd. S., 6 ft. N. of E.-W. fence on Iowa-Mo. -----			
State line -----	40 36 19.7	91 57 07.0	4,279
T. 67 N., Rs. 9 and 10 W., N. cor. secs. 19 and 24, 36 ft. S. and 22 ft. W. from rd. corner from E.-S., in concrete post; standard tablet stamped "T T 27 O 1935" -----			
Iron post on Iowa-Mo. State line on top of small hill, 2 ft. N. of fence -----	40 36 20.24	91 56 33.37	2,592
T-rd. S. -----	40 36 21.7	91 56 03.6	2,305
Rd. corner from W.-S. at fence N. -----	40 36 05.7	91 55 37.5	2,579
Rd. corner from N.-E., 75 ft. S. of center of small bridge -----	40 35 49.1	91 55 03.9	3,095
Rd. at fence N. -----	40 35 33.0	91 55 04.2	1,628
Rd. at fence S. -----	40 35 28.2	91 54 22.5	3,255
Fox River, center of bridge over -----	40 35 15.4	91 53 42.6	3,338
T. 67 N., R. 9 W., E. sixteenth cor. between secs. 22 and 27, 22 ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 68 C 1936" -----	40 35 26.9	91 53 03.4	3,240
T-rd. S. -----	40 35 27.34	91 52 31.37	2,473
T-rd. S. -----	40 36 06.7	91 52 31.0	3,980
Rd. at fences E. and W. on Iowa-Mo. State line -----	40 35 52.6	91 51 39.8	4,200
T-rd. S. -----	40 36 32.4	91 51 09.8	3,959
T. 67 N., R. 9 W., 300 ft. S. of E. quarter cor. sec. 24, 22 ft. S. and 2 ft. E. from T-rd. N. at NW. corner of Union churchyard, in concrete post; standard tablet stamped "T T 69 C 1936" -----	40 35 52.0	91 50 31.0	5,061
T-rd. S. at hedge fence N. -----	40 35 51.97	91 49 56.59	2,653
T. 67 N., R. 8 W., quarter cor. between secs. 19 and 20, rd. at hedge fence N. and lane S. -----	40 35 52.1	91 49 21.5	2,705
Rd. at hedge fence N. and wire fence S. -----	40 35 51.5	91 48 47.3	2,641
T-rd. S. -----	40 35 50.9	91 48 13.1	2,642
T. 67 N., R. 8 W., center sec. 21, 20 ft. S. and 36 ft. E. from stone, 1 mi. S. of Iowa-Mo. State line, 4 ft. S. of crossroads, in concrete post; standard tablet stamped "T T 90 C 1936" -----	40 35 50.4	91 47 55.8	1,333
Rd. at fences E. and W. -----	40 35 49.40	91 47 04.77	3,939
Rd. fork W. at lane E. on Iowa-Mo. State line -----	40 36 15.9	91 47 05.9	2,686
T-rd. E. -----	40 36 41.4	91 47 08.6	2,585
Rd. at fences N. and S. -----	40 37 00.1	91 47 08.0	1,891
Iowa-State Highway 114 at rd. W. -----	40 36 59.8	91 46 33.1	2,695
Highway at fence E. on Iowa-Mo. State line -----	40 36 59.6	91 45 58.6	2,661
T. 67 N., R. 8 W., in sec. 15, 0.2 mi. S. of Iowa-Mo. State line, 28 ft. S. and 50 ft. W. from highway at fence W., 28 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 91 C 1936" -----	40 36 43.8	91 45 57.3	1,608
Junction of rd. E. at fence W. -----	40 36 33.25	91 45 57.79	1,067
T. 67 N., R. 8 W., center sec. 22, junction of rd. W. -----	40 36 01.5	91 45 56.9	3,215
Highway at hedge fence W. and wire fence E. -----	40 35 48.6	91 45 56.8	1,305
Highway at fences E. and W. -----	40 35 22.0	91 45 56.5	2,690
T. 67 N., R. 8 W., quarter cor. between secs. 27 and 34, 30 ft. S. and 177 ft. W. from cross-road, 30 ft. S. and 2 ft. E. from rd. at fence S., 5 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 92 C 1936" -----	40 34 55.5	91 45 56.3	2,662
Highway at fences E. and W. -----	40 34 28.66	91 45 56.53	2,715
Junction of rd. SW. -----	40 34 01.5	91 45 33.6	3,269
	40 33 43.8	91 45 18.4	2,145

(Continued in Donnellson quadrangle; see line 1.)

3. FROM DONNELSON QUADRANGLE AT SEC. 23, T. 66 N., R. 8 W., WEST INTO
WYAONDA QUADRANGLE AT SEC. 30, T. 66 N., R. 8 W. (by C. D. Craig
in 1936)

(Continued from Donnellson quadrangle; see line 3.)

T-rd. N. at fence S. -----	40 30 28.1	91 45 05.7	(4,131)
T-rd. S. -----	40 30 30.8	91 45 40.0	2,662

(For balance in Wyaconda quadrangle, see line 3.)

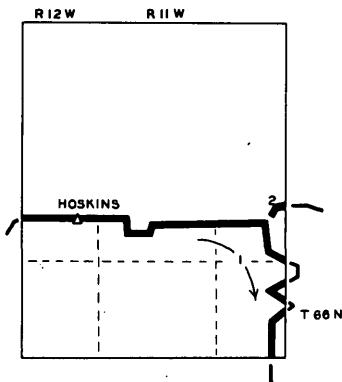
T. 66 N., R. 8 W., cor. secs. 20, 21, 28, and 29, rd. corner -----	40 30 07.2	91 47 39.2	(4,636)
Rd. corner from E.-N. -----	40 30 08.3	91 48 14.2	2,705

Station	Latitude	Longitude	Distance
Rd. at fences E. and W. -----	° ' "	° ' "	Feet
T. 66 N., R. 8 W., in NE 1/4 sec. 30, 26 ft. N. and 15 ft. W. from T-rd. S., 15 ft. N. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 110 C 1936" -----	40 30 09.1	91 48 43.9	2,294
	40 30 00.03	91 49 06.03	1,940

(Continued in Wyaconda quadrangle; see line 3.)

Magnetic declination 5° 11' E.

CANTRIL QUADRANGLE *
(Latitude 40°30'-40°45'; longitude 92°00'-92°15')
Scotland County



1. FROM PULASKI QUADRANGLE AT SEC. 21, T. 67 N., R. 12 W., EAST TO SEC. 21, T. 67 N., R. 10 W., THENCE SOUTH INTO MEMPHIS QUADRANGLE AT SEC. 28, T. 66 N., R. 10 W. (by H. W. Gross in 1935)
(Continued from Pulaski quadrangle; see line 4.)

Station	Latitude	Longitude	Distance
Hedge fences N. and W. and fence E. on Iowa-Mo. State line -----	° ' "	° ' "	Feet
T-rd. E. on Iowa-Mo. State line on line between secs. 21 and 22, T. 67 N., R. 12 W. -----	40 35 57.4	92 14 45.2	(2,917)
Memphis, 10 mi. N. and 2 mi. W. from, on Iowa-Mo. State line, 36 ft. S. and 25 ft. W. from T-rd. W. on line between secs. 22 and 23, T. 67 N., R. 12 W., 16 ft. S. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 19 G 1935" -----	40 35 58.0	92 14 10.7	2,667
Hoskins triangulation sta.; U.S.C. & G.S. standard disk stamped "Hoskins 1934" -----	40 35 58.60	92 13 02.90	5,227
Rd. corner from W.-S. on Iowa-Mo. State line on line between secs. 19 and 24, T. 67 N., Rs. 11 and 12 W., 52 ft. E. of rd. N. -----	40 35 59.75	92 12 00.60	4,807
Corner of hedge fences on Iowa-Mo. State line --- Memphis, 11 mi. N. of, along State Highway 15, on Iowa-Mo. State line, near NE. cor. sec. 19, T. 67 N., R. 11 W., 34 ft. S. and 57 ft. W. from abandoned crossroad, 8 ft. S. and 4 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 20 G 1935" -----	40 36 01.3	92 10 45.9	5,761
State Highway 15 at crossroad -----	40 36 01.6	92 10 10.2	2,761
T-rd. W. -----	40 36 02.40	92 08 58.13	5,557
T. 67 N., R. 11 W., quarter cor. between secs. 21 and 28, stone in center of T-rd. S. -----	40 35 26.8	92 08 56.5	3,609
T. 67 N., R. 11 W., cor. secs. 21, 22, 27, and 28, T-rd. N. -----	40 35 25.9	92 07 48.2	5,275
T. 67 N., R. 11 W., cor. secs. 22, 23, 26, and 27, 17 ft. N. and 77 ft. W. from T-rd. S., 48 ft. S. and 18 ft. W. from SW. corner of Mt. Olive Methodist Episcopal Church, in concrete post; standard tablet stamped "T T 21 G 1935" -----	40 35 36.7	92 07 13.4	2,976
	40 35 38.4	92 06 39.1	2,650
	40 35 39.22	92 05 31.57	5,210

*The greater part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 67 N., R. 11 W., quarter cor. between secs. 23 and 26, crossroads -----	40 35 36.4	92 04 56.3	2,720
Fence corner -----	40 35 50.4	92 04 04.4	4,187
T-rd. S. -----	40 36 11.0	92 03 19.2	4,059
T. 67 N., R. 10 W., near E. sixteenth cor. on N. line sec. 19, 0.5 mi. W. of South Upton School, 21 ft. S. and 148 ft. W. from rd. at hedge fence S., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 22 G 1935" -----	40 36 12.06	92 02 32.97	3,570
T-rd. N. -----	40 36 13.5	92 01 47.4	3,518
Rd. at hedge fence S. -----	40 36 14.8	92 01 04.5	3,309
T-rd. S. on Iowa-Mo. State line -----	40 36 15.7	92 00 29.5	2,701
T. 67 N., R. 10 W., quarter cor. between secs. 21 and 28, crossroads -----	40 35 33.6	92 00 30.6	4,260
Little Fox River, center of bridge over -----	40 34 49.2	92 00 32.5	4,490
Rd. at fence E., 71 ft. S. of rd. at fence W. ---	40 34 15.4	92 00 33.8	3,427
T. 67 N., R. 10 W., S. quarter cor. sec. 33, 24 ft. N. and 57 ft. E. from T-rd. N., 1 ft. S. of fence, in concrete post; standard tablet stamped "T T 23 G 1935" -----	40 33 49.44	92 00 34.54	2,628

(For balance in Keosauqua quadrangle, see line 1.)

T. 66 N., R. 10 W., cor. secs. 9, 10, 15, and 16, rd. corner from N.-E. -----	40 32 03.3	92 00 00.7	(2,637)
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(For balance in Keosauqua quadrangle, see line 1.)

T-rd. W. -----	40 31 24.2	92 00 02.1	(1,844)
Junction of abandoned rd. E. -----	40 30 44.9	92 00 03.4	3,974
T. 66 N., R. 10 W., cor. secs. 21, 22, 27, and 28, stone in center of crossroads -----	40 30 19.0	92 00 04.1	2,621

(Continued in Memphis quadrangle; see line 8.)

2. FROM SEC. 21, T. 67 N., R. 10 W., NORTHEAST ABOUT 1 MILE INTO KEOSAUQUA QUADRANGLE (by C. D. Craig in 1936)

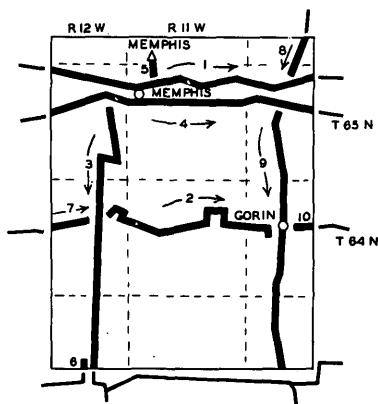
T-rd. S. (previously described) -----	40 36 15.7	92 00 29.5	....
T. 67 N., R. 10 W., in NE 1/4 sec. 21, 25 ft. S. and 30 ft. E. from T-rd. N., about 400 ft. E. of small farmhouse, 5 ft. N. of fence, in concrete post; standard tablet stamped "T T 26 G 1935" -----	40 36 15.96	92 00 03.05	2,043
Rd. corner from S.-E. at fence N. -----	40 36 31.3	92 00 03.3	1,551

(Continued in Keosauqua quadrangle; see line 2.)

Magnetic declination 6° 00' E.

MEMPHIS QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°00'-92°15')

Knox and Scotland Counties



1. FROM DOWNING QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO WYACONDA QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Downing quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
Memphis, R.R. at sta. -----	40 27 13.3	92 09 55.6	Feet (31,232)
T. 65 N., R. 11 W., quarter cor. between secs. 8 and 9 -----	40 27 21.9	92 08 02.8	8,755
T. 65 N., R. 11 W., quarter cor. between secs. 10 and 11 -----	40 27 21.6	92 05 46.0	10,584
Arbela, R.R. at sta. -----	40 27 49.2	92 00 57.5	27,010

(Continued in Wyaconda quadrangle; see line 1.)

2. FROM SEC. 14, T. 64 N., R. 12 W., EAST TO SEC. 17, T. 64 N., R. 10 W.
(by Roy E. Keim and S. T. Tudor in 1934-35)

T. 64 N., R. 12 W., near W. sixteenth cor. sec. 14, 31 ft. W. of highway, 40 ft. S. of County Route T, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 12 G 1935" -----	40 21 17.57	92 12 40.65	.....
State Highway 15 at rd. E. -----	40 21 32.4	92 12 34.1	1,582
State Highway 15 at rd. W. -----	40 22 03.4	92 12 30.2	3,159
Rd. at fences E. and W. -----	40 22 23.4	92 11 51.8	3,592
Rd. at fences N. and S. -----	40 22 23.5	92 11 31.8	1,552
T-rd. W. -----	40 22 25.2	92 11 04.0	2,155
Rd. at fences E. and W. -----	40 21 57.1	92 10 53.4	2,961
T. 64 N., R. 12 W., approximate E. sixteenth cor. between secs. 12 and 13, 25 ft. N. and 25 ft. W. from rd. forks, 150 ft. N. of dwelling, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "11 K 1937" -----	40 21 44.28	92 10 47.83	1,369
T-rd. S. -----	40 21 43.7	92 10 28.0	1,538
Junction of lane S. -----	40 21 43.4	92 10 07.6	1,560
Crossroads -----	40 21 43.0	92 09 35.8	2,460
Rd. at fence N. -----	40 21 42.8	92 09 18.6	1,330
T-rd. N. -----	40 21 42.5	92 06 44.6	2,636
T. 64 N., R. 11 W., W. sixteenth cor. between secs. 9 and 16, 25 ft. S. and 37 ft. W. from T-rd. S., on land owned by Ben Mickel, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "71 C W A 1934" -----	40 21 41.74	92 07 53.57	3,950
T-rd. N. -----	40 21 41.8	92 07 35.9	1,365
T-rd. S. -----	40 21 40.9	92 06 44.4	3,991
Center of wooden bridge -----	40 21 40.4	92 06 17.4	2,091
Crossroads -----	40 21 40.0	92 05 59.2	1,356
Center of bridge -----	40 21 55.6	92 05 54.6	1,640
T-rd. E. -----	40 22 30.9	92 05 52.0	3,572
Center of bridge -----	40 22 18.6	92 05 01.2	4,125
T-rd. W. -----	40 21 55.9	92 05 01.7	2,298
Gorin, 3.2 mi. W. of, approximate E. sixteenth cor. between secs. 11 and 14, T. 64 N., R. 11 W., 48 ft. N. and 25 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "10 K 1937" -----	40 21 39.87	92 05 02.50	1,622
Rd. forks -----	40 21 36.2	92 04 51.4	938

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Rd. fork SE. -----	40 21 39.0	92 04 13.0	2,982
Center of bridge -----	40 21 37.7	92 02 42.9	6,980
T-rd. N. -----	40 21 37.2	92 02 16.2	2,071
Gorin, intersection of street S. -----	40 21 36.6	92 01 39.0	2,881
Gorin, 0.6 mi. S. of, airway beacon 15 -----	40 21 03.13	92 01 26.93	3,511

3. FROM SEC. 12, T. 65 N., R. 12 W., SOUTH ALONG STATE HIGHWAY 15 INTO EDINA QUADRANGLE (by S. T. Tudor in 1935)

Memphis, 1 mi. W. of, 55 ft. N. and 10 ft. W. from junction of State Highway 15, in concrete post; standard tablet stamped "1505 C W A 1935" -----	40 27 24.75	92 11 35.18	.....
Highway at fence E. -----	40 26 52.5	92 11 34.8	3,260
Crossroad -----	40 26 51.0	92 11 34.7	2,180
T. 65 N., R. 12 W., W. sixteenth cor. between secs. 13 and 24, highway at fences E. and W. --	40 26 04.9	92 11 34.4	2,640
Highway at fences E. and W. -----	40 25 38.7	92 11 34.2	2,650
T. 65 N., R. 12 W., W. sixteenth cor. between secs. 24 and 25, highway at fence W. -----	40 25 12.4	92 11 34.3	2,670
Highway from N.-W. at rd. S. -----	40 24 46.3	92 11 33.9	2,639
Junction of rd. S. -----	40 24 46.1	92 11 49.0	1,170
T. 65 N., R. 12 W., center sec. 26, 45 ft. S. of rd. W., 5 ft. E. of fence, at curve in highway from E.-S., in concrete post; standard tablet stamped "1506 C W A 1935" -----	40 24 45.19	92 12 25.03	2,789
T. 65 N., R. 12 W., quarter cor. between secs. 26 and 35, highway at fence E. -----	40 24 19.5	92 12 25.0	2,600
Crossroad -----	40 23 53.2	92 12 24.9	2,660
Tps. 64 and 65 N., R. 12 W., approximate quarter cor. between secs. 2 and 35, junction of rd. W. -----	40 23 26.8	92 12 25.2	2,670
Junction of rd. E. -----	40 23 03.6	92 12 27.4	2,359
Highway at fences E. and W. on line between secs. 2 and 11, T. 64 N., R. 12 W. -----	40 22 36.3	92 12 31.6	2,780
Junction of rd. E. -----	40 22 10.3	92 12 29.3	2,638
Highway at fence W. -----	40 21 43.8	92 12 32.7	2,700
T T 12 G 1935 (previously described) -----	40 21 17.57	92 12 40.65	2,722
Crossroad -----	40 20 51.3	92 12 49.3	2,739
Highway at fence W. -----	40 20 24.9	92 12 52.4	2,686
Junction of rd. E. -----	40 19 58.6	92 12 51.3	2,659
Junction of rd. E. -----	40 19 32.4	92 12 59.5	2,727
T. 64 N., R. 12 W., cor. secs. 26, 27, 34, and 35, junction of rd. W. -----	40 19 05.6	92 12 59.3	2,720
Highway at fences E. and W. -----	40 18 40.0	92 12 59.0	2,580
Tps. 63 and 64 N., R. 12 W., cor. secs. 2, 3, 34, and 35, 32 ft. N. and 42 ft. W. from crossroad on Knox-Scotland county line, in concrete post; standard tablet stamped "1507 C W A 1935" -----	40 18 14.38	92 12 59.24	2,598
Crossroad -----	40 17 47.8	92 12 58.3	2,695
T. 63 N., R. 12 W., cor. secs. 2, 3, 10, and 11, highway at fences E. and W. -----	40 17 21.6	92 12 58.0	2,650
Highway at fences E. and W. -----	40 16 55.2	92 12 59.6	2,676
T. 63 N., R. 12 W., cor. secs. 10, 11, 14, and 15, highway at fences E. and W. -----	40 16 29.1	92 12 59.6	2,640
Highway at fences E. and W. -----	40 16 02.6	92 12 59.4	2,660
T. 63 N., R. 12 W., cor. secs. 14, 15, 22, and 23, highway at fences E. and W. -----	40 15 36.6	92 12 59.2	2,650
Highway at fences E. and W. -----	40 15 10.5	92 12 59.1	2,640

(Continued in Edina quadrangle; see line 5.)

4. FROM DOWNING QUADRANGLE EAST ALONG STATE HIGHWAY 4 INTO WYACONDA QUADRANGLE (by S. T. Tudor in 1935)
(Continued from Downing quadrangle; see line 4.)

Highway at fence S. -----	40 27 08.2	92 14 42.7	(2,681)
Highway at fence S. -----	40 27 08.5	92 14 05.3	2,890
Highway at fences N. and S. -----	40 27 08.9	92 13 34.9	2,349
Highway on curve at crossroad on line between secs. 10 and 11, T. 65 N., R. 12 W. -----	40 27 16.5	92 13 01.2	2,721
T. 65 N., R. 12 W., center sec. 11, highway at fences N. and S. -----	40 27 23.2	92 12 26.9	2,737
1505 C W A 1935 (previously described) -----	40 27 24.75	92 11 35.18	3,997
Memphis, municipal water tower -----	40 27 29.42	92 10 16.48	6,102
U.S.C. & G.S. standard disk stamped "Memphis 1934" -----	40 27 28.92	92 10 11.89	359
Highway at fence N. on line between secs. 7 and 8, T. 65 N., R. 11 W. -----	40 27 20.4	92 09 11.2	4,772
Memphis, about 1 mi. E. of, 35 ft. S. and 15 ft. E. from highway at fence S., in concrete post; standard tablet stamped "1509 E R A 1935" -----	40 27 22.20	92 08 32.97	2,959
Crossroad on line between secs. 8 and 9, T. 65 N., R. 11 W. -----	40 27 21.9	92 08 02.8	2,329
Junction of rd. S. -----	40 27 21.3	92 07 29.4	2,590

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Highway at fence S. on line between secs. 9 and 10, T. 65 N., R. 11 W. -----	40 27 20.8	92 06 54.3	2,710
Junction of rd. S. on curve -----	40 27 08.4	92 06 20.2	2,921
Highway on curve at fences N. and S. on line between secs. 10 and 11, T. 65 N., R. 11 W. ---	40 27 04.3	92 05 51.9	2,227
T. 65 N., R. 11 W., approximate center sec. 11, 40 ft. N. of highway on curve at fence S., in concrete post; standard tablet stamped "1510 E R A 1935" -----	40 27 20.06	92 05 12.39	3,446
Crossroad on line between secs. 11 and 12, T. 65 N., R. 11 W. -----	40 27 20.0	92 04 38.0	2,660
Highway at fence S. -----	40 27 19.9	92 04 03.3	2,680
T. 65 N., Rs. 10 and 11 W., approximate quarter cor. between secs. 7 and 12, crossroad -----	40 27 18.5	92 03 28.8	2,669
Highway at fence N. -----	40 27 18.2	92 02 59.2	2,287
T. 65 N., R. 10 W., approximate quarter cor. between secs. 7 and 8, highway at fences N. and S. -----	40 27 17.2	92 02 25.4	2,621
Highway at fences N. and S. -----	40 27 16.0	92 01 51.1	2,650
T. 65 N., R. 10 W., quarter cor. between secs. 8 and 9, 40 ft. N. and 115 ft. W. from junction of County Route A and rd. N. to Arbela, in concrete post; standard tablet stamped "1511 E R A 1935" -----	40 27 15.51	92 01 18.81	2,497
Junction of rd. N. -----	40 27 14.0	92 00 42.4	2,821
Junction of rd. S. -----	40 27 14.5	92 00 07.9	2,666

(Continued in Wyaconda quadrangle; see line 2.)

5. FROM SEC. 8, T. 65 N., R. 11 W., NORTH TO SEC. 5, T. 65 N., R. 11 W. (by S. T. Tudor in 1935)			
Crossroad (previously described)	40 27 21.9	92 08 02.8	.....
T. 65 N., R. 11 W., cor. secs. 4, 5, 8, and 9, rd. at fences E. and W. -----	40 27 48.2	92 08 02.2	2,659
Memphis triangulation sta.; U.S.C. & G.S. standard disk stamped "Memphis 1934" -----	40 28 17.48	92 08 25.18	3,451
6. FROM EDINA QUADRANGLE NORTH ALONG STATE HIGHWAY 15 TO SEC. 22, T. 63 N., R. 12 W. (by S. T. Tudor in 1935)			
3 G 1935 (In Edina quadrangle; see line 2.) -----	40 14 31.22	92 13 01.70	.....
Airway beacon 14 -----	40 15 19.54	92 13 00.11	4,892
7. FROM DOWNING QUADRANGLE EAST ALONG COUNTY ROUTE T TO SEC. 14, T. 64 N., R. 12 W. (by H. W. Gross in 1935) (Continued from Downing quadrangle; see line 5.)			
Center of bridge -----	40 21 11.4	92 14 45.5	(3,964)
T. 64 N., R. 12 W., quarter cor. between secs. 15 and 16, iron pin at junction of abandoned rd. N. and fence W. -----	40 21 16.8	92 14 09.1	2,873
Highway at fences N. and S. -----	40 21 17.3	92 13 34.6	2,672
T. 12 G 1935 (previously described) -----	40 21 17.57	92 12 40.65	4,175
8. FROM CANTRIL QUADRANGLE AT SEC. 28, T. 66 N., R. 10 W., SOUTH TO SEC. 9, T. 65 N., R. 10 W. (by H. W. Gross in 1935) (Continued from Cantril quadrangle; see line 1.)			
T. 66 N., R. 10 W., quarter cor. between secs. 27 and 28, stone at rd. corner from N.-W. -----	40 29 52.9	92 00 04.7	(2,645)
T. 66 N., R. 10 W., E. sixteenth cor. between secs. 28 and 33, 50 ft. S. and 21 ft. W. from T.-rd. W., 2 ft. W. of fence, in concrete post; standard tablet stamped "T. 25 G 1935" -----	40 29 26.83	92 00 22.53	2,977
Rd. at hedge fence E. and fence W. -----	40 29 01.0	92 00 22.8	2,609
Tps. 65 and 66 N., R. 10 W., approximate E. sixteenth cor. between secs. 4 and 33, T.-rd. N., 21 ft. E. of T.-rd. S. -----	40 28 34.9	92 00 23.4	2,649
Rd. corner from N.-W. at fence S. -----	40 28 05.7	92 00 24.2	2,951
Arbela, Chicago, Burlington & Quincy R.R. at sta., 30 ft. S. and 75 ft. W. from R.R. at Main Street crossing -----	40 27 49.2	92 00 57.5	3,069
1511 E R A 1935 (previously described) -----	40 27 15.51	92 01 18.81	3,790
9. FROM SEC. 9, T. 65 N., R. 10 W., SOUTH ALONG COUNTY ROUTE A TO GORIN, THENCE SOUTH ALONG ROADS INTO EDINA QUADRANGLE AT SEC. 21, T. 63 N., R. 10 W. (by C. D. Craig in 1936)			
1511 E R A 1935 (previously described) -----	40 27 15.51	92 01 18.81	.....
Allen Creek, center of bridge over -----	40 26 34.9	92 01 17.5	4,110

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Junction of rd. E. -----	40 26 09.2	92 01 17.9	2,609
Junction of rd. W. -----	40 25 43.1	92 01 18.0	2,639
T. 65 N., R. 10 W., cor. secs. 20, 21, 28, and 29, crossroad -----	40 25 05.1	92 01 19.0	3,841
T. 65 N., R. 10 W., cor. secs. 28, 29, 32, and 33, 55 ft. S. and 38 ft. W. from crossroad, 30 ft. S. and 4 ft. E. from fence corner, in concrete post; standard tablet stamped "T T 102 C 1936" -----	40 24 12.36	92 01 20.34	5,342
Tps. 64 and 65 N., R. 10 W., approximate cor. secs. 4, 5, 32, and 33, junction of rd. E. at hedge fence W. -----	40 23 20.8	92 01 21.4	5,217
T. 64 N., R. 10 W., cor. secs. 4, 5, 8, and 9, crossroad -----	40 22 28.7	92 01 23.6	5,278
Gorin, 35 ft. N. and 162 ft. E. from crossroad at cor. secs. 8, 9, 16, and 17, T. 64 N., R. 10 W., 35 ft. N. and 100 ft. E. from Atchison, Topeka and Sante Fe Ry. double track at rd. crossing, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 103 C 1936" -----	40 21 36.70 40 21 03.13	92 01 22.92 92 01 26.93	5,264 5,289
Airway beacon 15 (previously described) -----			
T. 64 N., R. 10 W., cor. secs. 16, 17, 20, and 21, crossroads -----	40 20 44.0	92 01 26.1	1,940
Rd. at fences E. and W. -----	40 19 38.4	92 01 10.8	6,736
T-rd. E. -----	40 19 25.3	92 01 11.0	1,330
T-rd. W. -----	40 19 02.1	92 01 11.8	2,355
T. 64 N., R. 10 W., cor. secs. 28, 29, 32, and 33, stone, 15 ft. S. of rd., 60 ft. W. of W. bank of drainage ditch -----	40 18 59.6 40 19 00.1	92 01 28.8 92 01 45.8	1,345 1,322
T-rd. S. -----			
T. 64 N., R. 10 W., 0.2 mi. W. of S. cor. secs. 32 and 33, 25 ft. N. and 25 ft. E. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 126 C 1936" -----	40 18 08.01 40 17 41.1 40 16 49.3	92 01 47.14 92 02 02.6 92 02 02.9	5,275 2,979 5,239
T-rd. S. -----			
T-rd. W. at fence E. -----			
T. 63 N., R. 10 W., cor. secs. 8, 9, 16, and 17, stone at T-rd. S. -----	40 16 22.6	92 01 30.0	3,721
T. 63 N., R. 10 W., cor. secs. 16, 17, 20, and 21, rd. at fences E. and W. -----	40 15 30.6	92 01 31.4	5,264
T T 6 G 1935 (In Edina quadrangle; see line 6.) -	40 14 38.61	92 01 33.13	5,258

10. FROM GORIN EAST INTO WYACONDA QUADRANGLE AT SEC. 15, T. 64 N., R. 10 W.
(by C. D. Craig in 1936)

T T 103 C 1936 (previously described) -----	40 21 36.70	92 01 22.92	.....
Rd. at fence S. -----	40 21 35.6	92 00 50.6	2,506
T. 64 N., R. 10 W., cor. secs. 9, 10, 15, and 16, T-rd. S. -----	40 21 34.8	92 00 16.1	2,669

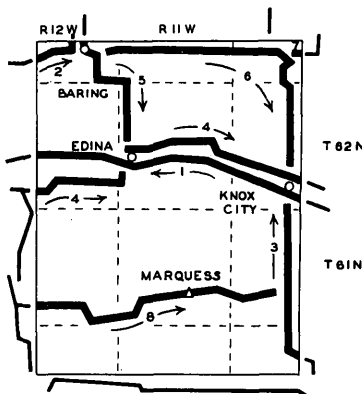
(Continued in Wyaconda quadrangle; see line 4.)

Magnetic declination 6° 11' E.

* It was reported by W. V. Kennedy, Oct. 29, 1937, that this monument had been destroyed.

EDINA QUADRANGLE
(Latitude 40°00'-40°15'; longitude 92°00'-92°15')

Knox County



1. FROM La BELLE QUADRANGLE NORTHWEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO La PLATA QUADRANGLE (by George T. Hawkins in 1900)
(Continued from La Belle quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
Knox City, R.R. at sta. -----	40 08 34.3	92 00 37.2	Feet (27,910)
T. 62 N., R. 10 W., cor. secs. 19, 20, 29, and 30 -----	40 09 10.6	92 02 34.4	9,804
T. 62 N., R. 11 W., quarter cor. between secs. 20 and 21 -----	40 09 39.2	92 07 59.7	25,420
T. 62 N., Rs. 11 and 12 W., approximate quarter cor. between secs. 19 and 24 -----	40 09 41.0	92 10 29.6	11,640
Edina, R.R. at sta. -----	40 09 44.6	92 10 39.4	836

(Continued in La Plata quadrangle; see line 1.)

2. FROM La PLATA QUADRANGLE EAST ALONG STATE HIGHWAY 11 TO SEC. 27, T. 63 N., R. 12 W. (by Roy E. Keim in 1934)
(Continued from La Plata quadrangle; see line 5.)

Junction of rd. S. -----	40 14 31.5	92 14 41.2	(2,670)
Crossroad -----	40 14 31.5	92 13 49.6	4,000
Baring, 0.8 mi. W. of Atchison, Topeka & Santa Fe Ry. sta., 43 ft. S. and 230 ft. W. from junction of State Highways 11 and 15, in concrete post, standard tablet stamped "3 G 1935" -----	40 14 31.22	92 13 01.70	3,718

3. FROM La BELLE QUADRANGLE AT SEC. 10, T. 60 N., R. 10 W., NORTH TO KNOX CITY (by Roy E. Keim in 1934)
(Continued from La Belle quadrangle; see line 2.)

T. 60 N., R. 10 W., W. sixteenth cor. sec. 10, 20 ft. S. of T-rd. N., in field, 3 ft. S. of fence corner, in concrete post; U.S.C. & G.S. and State Survey standard tablet -----	40 00 53.34	92 00 11.66	(1,324)
Rd. at fences E. and W. -----	40 01 19.7	92 00 10.9	2,666
T-rd. S. -----	40 01 45.6	92 00 10.3	2,629
Center of bridge -----	40 02 03.3	92 00 26.7	2,201
Center of bridge -----	40 02 35.4	92 00 26.6	3,244
T-rd. W. -----	40 03 05.3	92 00 25.9	3,030
Rd. at fences E. and W. -----	40 03 31.6	92 00 25.3	2,659
Knox City, 5.5 mi. S. of, cor. secs. 21, 22, 27, and 28, T. 61 N., R. 10 W., 25 ft. N. and 35 ft. W. from crossroads, on top of bank, in fence line, in concrete post; standard tablet stamped "T 1 C 1937" -----	40 03 57.82	92 00 24.95	2,654
T-rd. W. -----	40 04 49.6	92 00 23.4	5,246
Center of bridge -----	40 05 16.6	92 00 23.0	2,730
Center of bridge -----	40 05 39.0	92 00 22.7	2,260
Knox City, 3 mi. S. of, quarter cor. between secs. 9 and 10, T. 61 N., R. 10 W., 33 ft. S. and 42 ft. E. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard tablet -----	40 06 07.57	92 00 21.87	2,898

*Difference in value with p. 792, line 4, probably due to erroneous location of section corner.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Rd. at fences E. and W. -----	40 06 30.6	92 00 22.2	2,333
Center of bridge -----	40 06 56.9	92 00 22.0	2,657
T-rd. W. -----	40 07 25.2	92 00 22.1	2,863
Center of bridge -----	40 07 58.2	92 00 21.6	3,347
Chicago, Burlington & Quincy R.R. at rd. crossing	40 08 29.1	92 00 21.6	3,127
Knox City, 3 blocks E. of business district, 1 block S. of high school, 25 ft. S. and 50 ft. E. from State Highway 6 at N.-S. cross street, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 9 G 1935" -	40 08 38.01	92 00 21.00	901

4. FROM LA PLATA QUADRANGLE EAST ALONG STATE HIGHWAY 6 INTO LA BELLE
QUADRANGLE (by J. P. Anderson in 1934)

(Continued from La Plata quadrangle; see line 3.)

T. 62 N., R. 12 W., quarter cor. between secs. 21 and 28, junction of rd. W. -----	40 09 14.0	92 14 27.7	(3,167)
Junction of rd. N. -----	40 09 14.5	92 14 10.0	1,377
T. 62 N., R. 12 W., cor. secs. 22, 23, 26, and 27, crossroad -----	40 09 14.3	92 12 43.9	6,680
Edina, 1.7 mi. S. and W. from, 45 ft. S. and 40 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "1426 C W A 1934"	40 09 13.70	92 11 53.55	3,914
Crossroad -----	40 09 14.0	92 11 03.5	3,889
T. 62 N., Rs. 11 and 12 W., approximate cor. secs. 19, 24, 25, and 30, junction of State Highway 15 -----	40 09 14.0	92 10 29.4	2,650
Quincy, Omaha & Kansas City R.R. at highway crossing -----	40 09 42.5	92 10 29.6	2,880
Edina, municipal water tower at -----	40 10 10.29	92 10 19.48	2,923
Edina, 40 ft. S. of SE. corner of courthouse, in concrete post; aluminum tablet stamped "814 A"	40 10 04.74	92 10 17.81	578
Junction of rd. S. -----	40 10 05.2	92 08 50.3	6,793
Edina, 3 mi. E. of, 45 ft. N. and 30 ft. E. from junction of rd. N., in concrete post; standard tablet stamped "1427 C W A 1934" -----	40 10 04.89	92 06 49.92	9,351
Junction of rd. S. -----	40 10 04.3	92 06 16.2	2,619
T. 62 N., R. 11 W., cor. secs. 14, 15, 22, and 23, junction of rd. N. -----	40 10 04.6	92 05 41.6	2,690
U.S.C. & G.S. standard disk stamped "Edina West Base Azi" -----	40 10 03.81	92 05 04.74	2,865
Edina West Base triangulation sta.; U.S.C. & G.S. standard disk stamped "Edina West Base 1934" --	40 09 55.98	92 04 45.07	1,720
Crossroad on line between secs. 19 and 24, T. 62 N., Rs. 10 and 11 W. -----	40 09 31.2	92 03 26.9	6,574
T. 62 N., R. 10 W., cor. secs. 19, 20, 29, and 30, crossroad -----	40 09 14.0	92 02 34.7	4,410
U.S.C. & G.S. standard disk stamped "Y 15 1933"	40 09 09.23	92 02 21.30	1,148
Junction of rd. S. -----	40 08 53.1	92 01 31.3	4,215
U.S.C. & G.S. standard disk stamped "X 15 1933" -	40 08 32.40	92 00 33.04	4,984

(Continued in La Belle quadrangle; see line 3.)

5. FROM MEMPHIS QUADRANGLE SOUTH ALONG STATE HIGHWAY 15 TO EDINA (by
S. T. Tudor in 1935)

(Continued from Memphis quadrangle; see line 3.)

T. 63 N., R. 12 W., cor. secs. 22, 23, 26, and 27, highway at fences E. and W. -----	40 14 44.4	92 12 58.8	(2,640)
3 G 1935 (previously described) -----	40 14 31.22	92 13 01.70	1,354
Baring, steeple of Catholic church -----	40 14 41.2	92 12 18.3	3,513
Old State Highway 15 at crossroad -----	40 14 31.6	92 11 50.2	2,389
Old State Highway 15 at fences E. and W. -----	40 14 18.6	92 11 50.1	1,313
T. 63 N., R. 12 W., cor. secs. 25, 26, 35, and 36, old State Highway 15 at fence E. -----	40 13 53.2	92 11 49.9	2,570
Old State Highway 15 at fence E. -----	40 13 26.2	92 11 49.7	2,730
T. 63 N., R. 12 W., S. cor. secs. 35 and 36, junction of old State Highway 15 N. -----	40 13 00.3	92 11 49.5	2,625
Highway at fence S. -----	40 13 00.3	92 11 06.5	3,337
T. 62 N., Rs. 11 and 12 W., N. cor. secs. 1 and 6, 28 ft. S. and 143 ft. W. from T-rd. S., 135 ft. NE. of highway at curve, in concrete post; standard tablet stamped "T T 1506 E R A 1935" -----	40 13 00.10	92 10 34.23	2,500
Highway at fence E. -----	40 12 34.0	92 10 32.2	2,647
Highway at fence E. -----	40 12 07.9	92 10 31.7	2,640
Junction of rd. W. -----	40 11 37.4	92 10 31.2	3,090
Highway at fence W. -----	40 11 10.7	92 10 30.6	2,700
Highway at fence W. -----	40 10 45.2	92 10 30.0	2,580
814 A (previously described) -----	40 10 04.74	92 10 17.81	4,201

Station	Latitude			Longitude			Distance
	°	'	"	°	'	"	Feet
6. FROM SEC. 27, T. 63 N., R. 12 W., EAST TO SEC. 22, T. 63 N., R. 10 W., THENCE SOUTH TO KNOX CITY (by H. W. Gross in 1935)							
3 G 1935 (previously described) -----	40	14	31.22	92	13	01.70	.....
Baring, State Highway 15 at street intersection at W. limits of -----	40	14	33.4	92	12	27.0	2,701
Atchison, Topeka & Santa Fe Ry. at State Highway 15 crossing -----	40	14	33.3	92	12	13.2	1,066
T. 63 N., R. 12 W., N. sixteenth cor. on E. line sec. 25, T-rd. W., 100 ft. N. of T-rd. E. -----	40	14	32.0	92	10	41.4	7,123
Rd. corner from S.-E. -----	40	14	45.9	92	10	20.8	2,130
Baring, 2.5 mi. E. of, cor. secs. 19, 20, 29, and 30, T. 63 N., R. 11 W., 16 ft. N. and 25 ft. E. from E.-W. rd. at rd. S., 19 ft. E. of rd. N., in concrete post; standard tablet stamped "T T 4 G 1935" -----	40	14	45.24	92	09	29.44	3,985
Rd. at fence N., 5 ft. W. of center of bridge ---	40	14	44.6	92	08	54.9	2,680
T. 63 N., R. 11 W., cor. secs. 20, 21, 28, and 29, crossroads -----	40	14	44.2	92	08	20.9	2,640
Bridge Creek, center of bridge over -----	40	14	43.8	92	07	44.4	2,826
T. 63 N., R. 11 W., cor. secs. 21, 22, 27, and 28, rd. at hedge fences N. and S. -----	40	14	43.6	92	07	12.5	2,473
T. 63 N., R. 11 W., E. sixteenth cor. between secs. 22 and 27, 35 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 5 G 1935" -----	40	14	42.92	92	06	21.90	3,928
Crossroads -----	40	14	43.1	92	05	47.6	2,657
T. 63 N., R. 11 W., cor. secs. 23, 24, 25, and 26, T-rd. S. -----	40	14	43.0	92	04	56.8	3,946
T. 63 N., R. 11 W., E. cor. secs. 24 and 25, stone in rd. corner from W.-S., 66 ft. N. of stone in rd. corner from N.-E. at W. cor. secs. 19 and 30, T. 63 N., R. 10 W. -----	40	14	41.8	92	03	48.9	5,267
T. 63 N., R. 10 W., cor. secs. 19, 20, 29, and 30, stone at center of T-rd. S. -----	40	14	40.2	92	02	41.3	5,244
T. 63 N., R. 10 W., cor. secs. 20, 21, 28, and 29, 16 ft. N. and 29 ft. E. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 6 G 1935" -	40	14	38.61	92	01	33.13	5,288
T. 63 N., R. 10 W., cor. secs. 21, 22, 27, and 28, rd. at fences N. and S. -----	40	14	37.2	92	00	24.0	5,367
Middle Fabius River, center of bridge over -----	40	14	37.4	92	00	04.9	1,474
Rd. at fences N. and S. -----	40	14	11.4	92	00	26.2	3,108
Rd. corner from E.-S. -----	40	14	11.7	92	00	43.3	1,323
Knox City, 6 mi. N. of, near E. sixteenth cor. between secs. 28 and 33, T. 63 N., R. 10 W., 137 ft. W. of SW. corner of Brushy School, 23 ft. N. and 19 ft. W. from crossroads, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 7 G 1935" -----	40	13	45.64	92	00	44.57	2,635
Rd. forks -----	40	13	06.3	92	00	45.0	3,981
T. 63 N., R. 10 W., S. cor. secs. 33 and 34, T-fence N., 155 ft. E. of winding rd. SE. -----	40	12	53.4	92	00	28.6	1,825
Rd. forks -----	40	12	36.1	92	00	17.9	1,938
Rd. forks, 545 ft. N. of bridge over Bridge Creek T. 62 N., R. 10 W., cor. sec. 3, 4, 9, and 10, rd. at fence E. -----	40	11	59.7	92	00	18.3	3,683
Knox City, 3 mi. N. of, quarter cor. between secs. 9 and 10, T. 62 N., R. 10 W., 225 ft. N. and 43 ft. W. from T-rd. E., SW. of rd. fork NW., in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 8 G 1935" -	40	11	45.8	92	00	18.7	1,399
T. 62 N., R. 10 W., cor. secs. 9, 10, 15, and 16, rd. at fences E. and W. -----	40	11	21.82	92	00	19.81	2,433
Rd. at fences E. and W., 100 ft. S. and 80 ft. E. from bridge over Wolf Branch Creek -----	40	10	53.5	92	00	19.8	2,869
Rd. at fences E. and W. -----	40	10	27.5	92	00	28.3	2,707
T. 62 N., R. 10 W., cor. secs. 21, 22, 27, and 28, crossroads -----	40	09	35.2	92	00	21.0	5,325
T T 9 G 1935 (previously described) -----	40	09	09.1	92	00	21.3	2,640
X 15 1935 (previously described) -----	40	08	38.01	92	00	21.00	3,146
T 9 1935 (previously described) -----	40	08	32.40	92	00	33.04	1,094

7. FROM La BELLE QUADRANGLE AT SEC. 22, T. 63 N., R. 10 W., WEST TO SEC. 21,
T. 63 N., R. 10 W. (by C. D. Craig in 1936)
(Continued from La Belle quadrangle; see line 6.)

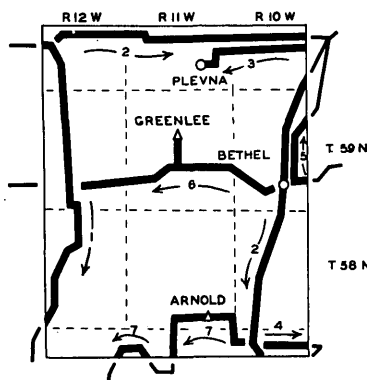
T-rd. S. -----	40	14	36.9	92	00	08.3	(1,383)
Rd. at fences N. and S. -----	40	14	37.4	92	00	42.5	2,651
T T 6 G 1935 (previously described) -----	40	14	38.61	92	01	33.13	3,929

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
8. FROM La PLATA QUADRANGLE AT SEC. 28, T. 61 N., R. 12 W., EAST TO SEC. 21, T. 61 N., R. 10 W. (by C. D. Craig in 1936-37) (Continued from La Plata quadrangle; see line 9.)			
Rd. corner from W.-S. -----	40 03 07.7	92 14 44.3	(3,940)
T-rd. E. -----	40 02 54.6	92 14 44.6	1,334
Rd. corner from S.-E. -----	40 03 07.6	92 14 10.6	2,957
T. 61 N., R. 12 W., cor. secs. 27, 28, 33, and 34, T-rd. N. -----	40 03 07.6	92 13 53.4	1,335
T-rd. N. -----	40 03 07.5	92 13 02.4	3,967
T. 61 N., R. 12 W., cor. secs. 26, 27, 34, and 35, rd. at hedge fence S. and fence N. -----	40 03 07.4	92 12 45.4	1,325
T. 61 N., R. 12 W., quarter cor. between secs. 26 and 35, 250 ft. S. and 40 ft. W. from cross- roads, 10 ft. S. and 40 ft. E. from SE. corner of Pleasant Run School, in concrete post; standard tablet stamped "13 B 1936" -----	40 03 04.88	92 12 11.73	2,629
Rd. at fences E. and W. -----	40 02 41.1	92 12 11.3	2,404
T. 61 N., R. 12 W., S. quarter cor. sec. 35, T-rd. N., 227 ft. E. of T-rd. S. -----	40 02 14.9	92 12 11.2	2,655
Rd. at fence N. -----	40 02 14.9	92 11 37.0	2,660
Rd. at fence N. -----	40 02 15.0	92 11 02.9	2,655
U.S.C. & G.S. standard disk stamped "S 134 1935" -----	40 02 15.47	92 10 28.57	2,670
Rd. at fences N. and S. -----	40 02 03.0	92 09 53.8	2,984
T-rd. W. -----	40 02 02.5	92 09 19.7	2,650
T. 61 N., R. 11 W., S. cor. secs. 31 and 32, rd. at fence W., 105 ft. W. of N. cor. secs. 5 and 6, T. 60 N., R. 11 W. -----	40 02 15.6	92 09 20.7	1,331
Rd. at fence E. -----	40 02 41.7	92 09 20.1	2,640
T. 61 N., R. 11 W., cor. secs. 29, 30, 31, and 32, T-rd. E. -----	40 03 07.8	92 09 19.6	2,640
T. 61 N., R. 11 W., quarter cor. between secs. 29 and 32, 30 ft. N. and 50 ft. E. from T-rd. N., in concrete post; standard tablet stamped "12 B 1936" -----	40 03 08.43	92 08 44.76	2,714
T. 61 N., R. 11 W., cor. secs. 28, 29, 32, and 33, crossroads -----	40 03 08.3	92 08 11.2	2,609
Rd. at hedge fence N. and fence S. -----	40 03 08.4	92 07 37.1	2,650
T. 61 N., R. 11 W., cor. secs. 27, 28, 33, and 34, rd. at fences N. and S. -----	40 03 08.4	92 07 02.8	2,670
T-rd. N. -----	40 03 08.7	92 06 28.6	2,660
Marquess triangulation sta.; U.S.C. & G.S. stan- dard disk stamped "Marquess 1934" -----	40 03 34.76	92 06 31.75	2,651
T-rd. N. (previously described) -----	40 03 06.7	92 06 28.6	.....
T. 61 N., R. 11 W., cor. secs. 26, 27, 34, and 35, T-rd. S. -----	40 03 08.8	92 05 54.4	2,658
T-rd. N. -----	40 03 08.9	92 05 03.2	3,981
Rd. at fences N. and S. -----	40 03 08.9	92 04 46.3	1,320
T. 61 N., Rs. 10 and 11 W., 800 ft. E. of cor. secs. 25, 30, 31, and 36, 30 ft. N. and 45 ft. W. from crossroads, in concrete post; standard tablet stamped "11 B 1936" -----	40 03 08.50	92 03 15.61	7,051
Junction of lane N. -----	40 03 07.8	92 02 40.9	2,698
T-rd. S. -----	40 03 07.2	92 02 07.2	2,623
T. 61 N., R. 10 W., cor. secs. 28, 29, 32, and 33, crossroads -----	40 03 06.5	92 01 33.8	2,596
Rd. at fences N. and S. -----	40 03 05.7	92 01 00.0	2,635
T. 61 N., R. 10 W., cor. secs. 27, 28, 33, and 34, stone in T-rd. W. -----	40 03 05.3	92 00 26.0	2,645
Rd. at fences E. and W. -----	40 03 31.6	92 00 25.3	2,662
T T 1 C 1937 (previously described) -----	40 03 57.82	92 00 24.95	2,648

Magnetic declination 5° 57' E.

SHELBYVILLE QUADRANGLE
(Latitude 39°45'-40°00'; longitude 92°00'-92°15')

Knox and Shelby Counties



1. FROM ATLANTA QUADRANGLE AT SEC. 21, T. 60 N., R. 12 W., SOUTH INTO ATLANTA QUADRANGLE AT SEC. 4, T. 57 N., R. 12 W. (by J. R. Ellis in 1905)

(Continued from Atlanta quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Perry School, in SW. corner of field of J. W. Inderman; iron post stamped "Prim Trav Sta No 3 1905"*	39 59 48.44	92 14 48.97	(5,347)
T-rd. E. -----	39 58 30.6	92 14 00.2	8,741
T-rd. E. -----	39 57 38.4	92 14 01.6	5,394
T. 60 N., R. 12 W., S. cor. secs. 33 and 34, on Knox-Shelby county line -----	39 57 12.3	92 14 02.2	2,641
T. 59 N., R. 12 W., cor. secs. 3, 4, 9, and 10, rd. at point 27 ft. N. of hedge fence -----	39 56 20.8	92 14 04.4	5,224
T. 59 N., R. 12 W., cor. secs. 9, 10, 15, and 16, crossroads at Cherry Box -----	39 55 29.3	92 14 05.4	5,212
T. 59 N., R. 12 W., cor. secs. 15, 16, 21, and 22, crossroads -----	39 54 35.9	92 14 06.6	5,394
T. 59 N., R. 12 W., cor. secs. 21, 22, 27, and 28, crossroads at church -----	39 53 43.5	92 14 07.9	5,313
Cherry Box, 3 mi. S. of, cor. secs. 27, 28, 33, and 34, T. 59 N., R. 12 W., 35 ft. N. and 20 ft. E. from crossroads, in fence corner; iron post stamped "Prim Trav Sta No 14 1905 835 Adj" -----	39 52 51.57	92 14 08.71	5,252
Point, 12 ft. SW. of stone, near approximate W. sixteenth cor. between secs. 3 and 34, Tps. 58 and 59 N., R. 12 W. -----	39 51 59.1	92 13 52.9	5,442
Hagers Grove, 1 mi. N. of, in SW. corner of schoolyard; iron post stamped "Prim Trav Sta No 15 1905 797" -----	39 50 41.22	92 13 20.23	8,282
Hagers Grove, T-rd. N. in NE. part of -----	39 49 51.6	92 13 22.2	5,020
Hagers Grove, 0.5 mi. S. and 0.5 mi. W. (? 1.5 mi. SW.) from, at top of hill, in orchard; iron post stamped "Prim Trav Sta No 16 1905 Adj" -----	39 49 14.19	92 14 14.95	5,600
T. 58 N., R. 12 W., cor. secs. 21, 22, 27, and 28, stone near crossroads -----	39 48 29.1	92 14 16.1	4,565
Tps. 57 and 58 N., R. 12 W., quarter cor. between secs. 4 and 33, 16 ft. N. and 14 ft. W. from rd. corner W.-N., 2 ft. SE. of fence; iron post stamped "Prim Trav Sta No 17 1905 803 Adj" -----	39 46 44.54	92 14 53.95	10,990

(Continued in Atlanta quadrangle; see line 3.)

2. FROM SEC. 16, T. 60 N., R. 12 W., EAST TO SEC. 22, T. 60 N., R. 10 W., THENCE SOUTH INTO SHELBYVILLE QUADRANGLE AT SEC. 8, T. 57 N., R. 10 W. (by J. R. Ellis in 1905)

Prim Trav Sta No 3 1905 (previously described) -	39 59 48.44	92 14 48.97	.....
T. 60 N., R. 12 W., cor. secs. 15, 16, 21, and 22, T-rd. S. at center of small bridge -----	39 59 49.1	92 13 58.7	3,908

* It was reported by F. Y. Brown, July 31, 1936, that this monument had been destroyed. Monument 1 B 1936 set 2 ft. S. and 100 ft. W. from this position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 60 N., R. 12 W., cor. secs. 14, 15, 22, and 23, crossroads -----	39 59 50.7	92 12 50.8	5,295
T. 60 N., R. 12 W., cor. secs. 13, 14, 23, and 24, T-rd. S. -----	39 59 52.4	92 11 44.2	5,136
T. 60 N., R. 12 W., E. cor. secs. 13 and 24, stone at T-rd. W. -----	39 59 53.7	92 10 34.5	5,453
T-rd. S. -----	39 59 51.6	92 09 23.6	5,954
T-rd. N. about 1 mi. N. and 2 mi. W. from Plevna-Plevna, 1 mi. N. and 1 mi. W. from, near center sec. 22, T. 60 N., R. 11 W., 50 ft. S. of State Highway 15, 2 ft. E. of fence, in concrete post; standard tablet -----	39 59 22.6	92 07 58.3	6,700
Stone at crossroads -----	39 59 19.41	92 06 33.43	6,624
Little Fabius River, W. end of bridge over -----	39 59 17.6	92 05 24.9	5,339
T-rd. N., 0.2 mi. E. of Mount Salem Church -----	39 59 14.3	92 03 59.9	6,625
Stone at crossroads -----	39 59 12.5	92 02 46.6	5,709
	39 59 11.1	92 01 21.4	6,633

(For balance in Newark quadrangle, see line 1.)

T-rd. E. near Shiloh Church -----	39 55 33.6	92 00 02.8	(8,859)
T. 59 N., R. 10 W., center sec. 15, T-rd. N. -----	39 54 49.6	92 00 03.9	4,463
T. 59 N., R. 10 W., center sec. 16, stone at T-rd. S. -----	39 54 50.5	92 01 11.6	5,277
Bethel, about 1.2 mi. N. of, center sec. 21, T. 59 N., R. 10 W., 117 ft. S. 40° 40' W. from dwelling of J. H. Moore, in SE. corner of Bowers field; iron post stamped "Prim Trav Sta No 6 1905" -----	39 53 57.85	92 01 13.03	5,323
Bethel, center of bridge over North River -----	39 52 30.3	92 01 28.6	6,896
T-rd. N., 1 mi. S. of Bethel -----	39 51 47.4	92 01 32.8	4,369
T. 58 N., R. 10 W., cor. secs. 4, 5, 8, and 9, T-rd. W. -----	39 50 55.9	92 01 51.8	5,427
T. 58 N., R. 10 W., cor. secs. 8, 9, 16, and 17, crossroads -----	39 50 03.8	92 01 53.1	5,273
T. 58 N., R. 10 W., cor. secs. 16, 17, 20, and 21, crossroads -----	39 49 11.8	92 01 54.2	5,273
Shelbysville, intersection of Main and Jackson streets -----	39 48 21.3	92 02 29.4	6,116
Black Creek, center of bridge over -----	39 47 32.1	92 02 29.3	4,988
Crossroads -----	39 46 34.5	92 02 30.7	5,829
Shelbysville, 4 mi. S. of, near T-rd. E., in NW. corner of field of C. J. Anderson, 2 ft. SE. of corner fence post; iron post stamped "Prim Trav Sta No 7 1905 762 Adj" -----	39 45 17.30	92 02 31.45	7,822

(Continued in Shelbyna quadrangle; see line 2.)

3. FROM NEWARK QUADRANGLE WEST ALONG COUNTY ROUTE B TO SEC. 24, T. 60 N., R. 11 W., THENCE SOUTH AND WEST ALONG ROADS TO PLEVNA (by Roy E. Keim in 1934)

Prim Trav Sta No 5 1905 (In Newark quadrangle; see line 1.) -----	39 59 11.78	91 59 50.80	.....
Junction of rd. S. -----	39 59 00.5	92 00 31.3	3,353
Junction of rd. S. -----	39 59 11.1	92 01 21.5	4,053
Junction of rd. N. -----	39 59 11.4	92 01 38.1	1,290
Junction of rd. S. -----	39 59 11.8	92 02 12.6	2,690
Junction of rd. N. -----	39 59 12.4	92 02 46.7	2,650
Junction of rd. S. -----	39 59 11.7	92 03 03.5	1,309
Junction of rd. N. -----	39 59 14.3	92 03 58.4	4,273
Junction of rd. E. -----	39 59 15.7	92 04 33.6	2,746
Rd. at fences E. and W. -----	39 58 49.5	92 04 34.7	2,645
Crossroads -----	39 58 23.4	92 04 36.0	2,646
Plevna, State Highway 15 from S.-W. at junction of rds. N. and E. -----	39 58 24.6	92 05 09.7	2,631
Plevna, 20 ft. N. and 100 ft. W. from State Highway 15 at rds. N. and E., 100 ft. W. of post office, in concrete post; standard tablet -----	39 58 24.90	92 05 11.04	105

4. FROM SEC. 8, T. 57 N., R. 10 W., EAST INTO NEWARK QUADRANGLE AT SEC. 10, T. 57 N., R. 10 W. (by Roy E. Keim in 1934)

Prim Trav Sta No 7 1905 762 Adj (previously described) -----	39 45 17.30	92 02 31.45	.....
Shelby County R.R. at rd. crossing -----	39 45 17.3	92 01 57.8	2,629
T-rd. N. -----	39 45 16.2	92 01 17.1	3,183
Center of ford -----	39 45 56.5	92 00 40.5	4,973

(Continued in Newark quadrangle; see line 4.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

5. FROM NEWARK QUADRANGLE AT SEC. 27, T. 59 N., R. 10 W., WEST TO BETHEL, THENCE NORTH ALONG STATE HIGHWAY 15 TO SEC. 16, T. 59 N., R. 10 W., THENCE EAST ALONG ROADS INTO NEWARK QUADRANGLE AT SEC. 10, T. 59 N., R. 10 W. (by H. W. Gross in 1935)

(Continued from Newark quadrangle; see line 6.)

T. 59 N., R. 10 W., center sec. 27, stone in rd. at fences N. and S. -----	39 53 04.9	92 00 06.2	(2,632)
Rd. at fences N. and S. -----	39 52 52.2	92 00 57.2	4,176
Bethel, one-half block S. of post office, 42 ft. N. and 32 ft. E. from State Highway 15 at cross street, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "85 C W A 1934" -----	39 52 35.94	92 01 24.85	2,715
Junction of rd. E. -----	39 52 53.2	92 01 21.7	1,767
Highway at rd. W. produced -----	39 53 18.9	92 01 21.1	2,595
Crossroad -----	39 53 31.9	92 01 17.1	1,355
Junction of rd. W., 43 ft. S. of junction of rd. E. -----	39 53 57.6	92 01 12.7	2,623
Bethel, 2.5 mi. N. of, 27 ft. S. and 30 ft. E. from junction of rd. S. at intersection of tangents of State Highway 15 on curve, in concrete post; standard tablet stamped "T T L G 1935" -----	39 54 50.18	92 01 11.22	5,321
T-rd. N. -----	39 54 49.6	92 00 03.8	5,250
Rd. at fences E. and W. -----	39 55 15.7	92 00 03.3	2,643

(Continued in Newark quadrangle; see line 7.)

6. FROM BETHEL SOUTH ALONG STATE HIGHWAY 15 TO SEC. 33, T. 59 N., R. 10 W., THENCE WEST ALONG COUNTY ROUTE M TO SEC. 20, T. 59 N., R. 11 W., THENCE WEST ALONG ROADS TO SEC. 28, T. 59 N., R. 12 W. (by C. D. Craig in 1937)

85 C W A 1934 (previously described) -----	39 52 35.94	92 01 24.85	.....
Junction of County Route M -----	39 52 09.0	92 01 31.4	2,771
Highway at fences N. and S. -----	39 52 21.3	92 02 22.4	4,169
U.S.C. & G.S. standard disk stamped "F 134 1935" -----	39 52 36.80	92 02 42.80	2,376
T. 59 N., R. 10 W., cor. secs. 29, 30, 31, and 32, highway at fences N. and S. -----	39 52 40.4	92 02 56.2	1,054
Highway at fences E. and W. -----	39 53 06.8	92 03 12.4	2,959
U.S.C. & G.S. standard disk stamped "G 134 1935" -----	39 53 32.79	92 03 35.35	3,177
T. 59 N., Rs. 10 and 11 W., approximate cor. secs. 19, 24, 25, and 30, junction of rd. N. --	39 53 33.8	92 03 55.5	1,575
Crossroad -----	39 53 35.4	92 04 29.8	2,680
T. 59 N., R. 11 W., cor. secs. 23, 24, 25, and 26, highway at hedge fence N. and fence S. -----	39 53 36.8	92 05 04.3	2,686
U.S.C. & G.S. standard disk stamped "H 134 1935" -----	39 53 36.50	92 05 37.87	2,626
Highway at hedge fence N. and fence S. -----	39 53 39.5	92 06 13.2	2,758
T. 59 N., R. 11 W., quarter cor. between secs. 22 and 27, crossroad -----	39 53 40.7	92 06 47.4	2,667
U.S.C. & G.S. standard disk stamped "J 134 1935" -----	39 53 41.59	92 06 59.12	917
T. 59 N., R. 11 W., cor. secs. 21, 22, 27, and 28, junction of rd. N. -----	39 53 42.0	92 07 21.8	1,764
Highway at fences E. and W. -----	39 54 08.3	92 07 20.9	2,659
T. 59 N., R. 11 W., cor. secs. 15, 16, 21, and 22, crossroads -----	39 54 34.5	92 07 20.0	2,655
Rd. at fences E. and W. -----	39 55 00.7	92 07 19.1	2,655
U.S.C. & G.S. standard disk stamped "Greenlee Azi 1934" -----	39 55 27.71	92 07 17.84	2,734
Greenlee triangulation sta.; U.S.C. & G.S. standard disk stamped "Greenlee 1934" -----	39 55 25.24	92 06 43.67	2,675
Junction of rd. N. (previously described) -----	39 53 42.0	92 07 21.8	.....
Highway at fence N. -----	39 53 43.0	92 07 56.2	2,690
T. 59 N., R. 11 W., cor. secs. 20, 21, 28, and 29, crossroad -----	39 53 43.9	92 08 30.5	2,675
Rd. at fences E. and W. -----	39 53 17.7	92 08 31.5	2,650
T. 59 N., R. 11 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 52 51.7	92 08 32.4	2,637
Rd. at fence N. -----	39 52 52.5	92 09 06.7	2,674
T-rd. N. -----	39 52 53.5	92 09 57.9	3,990
Leonard, 1 mi. S. of, cor. secs. 25, 30, 31, and 36, T. 59 N., Rs. 11 and 12 W., 60 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "7 B 1936" -----	39 52 53.79	92 10 43.29	3,542
Rd. at fences N. and S. -----	39 52 54.0	92 11 17.1	2,634
T-rd. W. -----	39 52 52.7	92 11 51.2	2,664
Rd. at fences N. and S. -----	39 52 53.1	92 12 25.8	2,695
T. 59 N., R. 12 W., cor. secs. 26, 27, 34, and 35, rd. at hedge fence N. and fence S. -----	39 52 52.6	92 13 00.3	2,695
Rd. at fences N. and S. -----	39 52 52.0	92 13 34.8	2,685
Prim Trav Sta No 14 1905 835 Adj (previously described) -----	39 52 51.57	92 14 08.71	2,648

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

7. FROM SEC. 8, T. 57 N., R. 10 W., NORTH ALONG STATE HIGHWAY 15 TO SEC. 5, T. 57 N., R. 10 W., THENCE WEST AND SOUTH INTO SHELBYNA QUADRANGLE AT SEC. 7, T. 57 N., R. 11 W. (by C. D. Craig in 1937)

Prim Trav Sta No 7 1905 762 Adj (previously described) -----	39 45 17.30	92 02 31.45	.....
Junction of rd. W. -----	39 45 43.9	92 02 31.2	2,690
Highway at fences E. and W. -----	39 46 09.9	92 02 31.0	2,635
T. 57 N., R. 10 W., N. quarter cor. sec. 5, crossroad -----	39 46 34.6	92 02 30.8	2,495
Rd. at hedge fence S. -----	39 46 35.1	92 03 04.6	2,640
T. 57 N., R. 10 W., N. quarter cor. sec. 6, T-rd. S., 55 ft. W. of rd. at fence N. -----	39 46 35.7	92 03 38.5	2,656
Tps. 57 and 58 N., Rs. 10 and 11 W., cor. of, 31 ft. S. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "3 B 1936" -----	39 46 35.53	92 04 09.73	2,436
Rd. at fences E. and W. -----	39 47 02.0	92 04 09.4	2,675
T. 58 N., R. 11 W., E. cor. secs. 25 and 36, T-rd. W. -----	39 47 28.1	92 04 08.4	2,645
Rd. at fences N. and S. -----	39 47 28.9	92 04 42.6	2,669
T. 58 N., R. 11 W., cor. secs. 25, 26, 35, and 36, T-rd. S. -----	39 47 29.7	92 05 16.6	2,660
Arnold triangulation sta.; U.S.C. & G.S. standard disk stamped "Arnold 1934" -----	39 47 31.50	92 05 41.44	1,947
Abandoned rd. corner from S.-E. -----	39 47 04.1	92 05 51.4	2,683
T. 57 N., R. 11 W., N. quarter cor. sec. 2, T-rd. S., 100 ft. W. of T-rd. N. at S. quarter cor. sec. 35, T. 58 N., R. 11 W. -----	39 46 37.8	92 05 53.5	2,664
T. 58 N., R. 11 W., S. cor. secs. 34 and 35, T-rd. N. -----	39 46 38.4	92 06 26.3	2,560
Rd. at fence N. -----	39 46 39.1	92 07 00.7	2,686
T. 58 N., R. 11 W., S. cor. secs. 33 and 34, 5 ft. S. and 73 ft. W. from T-rd. N., in concrete post; standard tablet stamped "2 B 1936" -----	39 46 39.95	92 07 36.11	2,763
Center of bridge over creek -----	39 46 21.1	92 07 29.2	1,984
T-rd. W. at fence E. -----	39 46 04.0	92 07 36.9	1,827

(For balance in Shelbyna quadrangle, see line 9.)

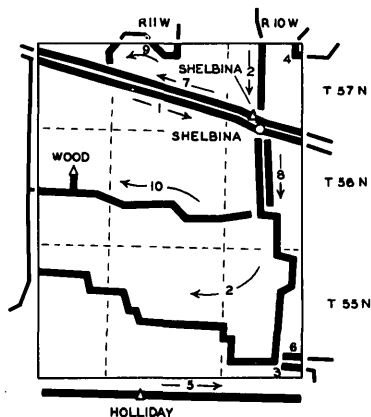
T. 57 N., R. 11 W., cor. secs. 8, 9, 16, and 17, 52 ft. N. and 27 ft. W. from crossroads, in concrete post; standard tablet stamped "1 B 1936" -----	39 45 01.04	92 08 47.11	(2,794)
T-rd. N. -----	39 45 01.4	92 09 38.0	3,979
T. 57 N., R. 11 W., cor. secs. 7, 8, 17, and 18, T-rd. S. -----	39 45 01.7	92 09 55.7	1,375
Rd. at hedge fence N. -----	39 45 02.2	92 10 30.0	2,680
T. 57 N., R. 11 W., W. cor. secs. 7 and 18, T-rd. E., 260 ft. N. of T-rd. W. at E. cor. secs. 12 and 13, T. 57 N., R. 12 W. -----	39 45 02.5	92 10 57.2	2,125

(Continued in Shelbyna quadrangle; see line 9.)

Magnetic declination 6° 07' E.

SHELBYNA QUADRANGLE
(Latitude 39°30'-39°45'; longitude 92°00'-92°15')

Monroe and Shelby Counties



1. FROM MACON QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO HUNNEWELL QUADRANGLE (by George T. Hawkins in 1901)
(Continued from Macon quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
R.R. at rd. crossing near milepost 56 -----	39 43 52.6	92 12 07.8	(17,056)
Lentner, R.R. at sta. -----	39 43 06.6	92 08 50.8	16,084
T. 57 N., R. 11 W., cor. secs. 20, 21, 28, and 29 -----	39 43 14.1	92 08 50.2	761
T. 57 N., Rs. 10 and 11 W., approximate cor. secs. 25, 30, 31, and 36 -----	39 42 15.3	92 04 19.6	21,968
Shelbina, R.R. at sta. -----	39 41 37.1	92 02 27.2	9,663

(Continued in Hunnewell quadrangle; see line 1.)

2. FROM SHELBYVILLE QUADRANGLE AT SEC. 8, T. 57 N., R. 10 W., SOUTH TO SEC. 33, T. 55 N., R. 10 W., THENCE NORTHWEST INTO MACON QUADRANGLE AT SEC. 4, T. 55 N., R. 12 W. (by J. R. Ellis in 1905)
(Continued from Shelbyville quadrangle; see line 2.)

Salt River, N. end of bridge over -----	39 44 30.1	92 02 25.6	(4,797)
Crossroads -----	39 43 06.3	92 02 15.5	8,516
Shelbina, Chicago, Burlington & Quincy R.R. at Main Street crossing -----	39 41 36.5	92 02 24.5	9,124
T-rd. S. just S. of Catholic cemetery -----	39 40 55.7	92 02 05.2	4,395
T. 56 N., R. 10 W., cor. secs. 8, 9, 16, and 17, on Monroe-Shelby county line -----	39 39 37.4	92 02 06.6	7,924
T. 56 N., R. 10 W., quarter cor. between secs. 20 and 21, on State Highway 15, 40 ft. N. and 30 ft. E. from junction of rd. E.; iron post stamped "Prim Trav Sta No 8 1905" -----	39 38 19.23	92 02 07.74	7,902
T-rd. S. just E. of dwelling of J. W. Caldwell --	39 36 59.7	92 01 18.9	8,911
T-rd. N. -----	39 35 25.6	92 01 16.5	9,524
T-rd. S. -----	39 35 24.2	92 00 23.4	4,159
T. 55 N., R. 10 W., probable center sec. 10, stone at T-rd. N. -----	39 33 54.7	92 00 25.9	9,068
T. 55 N., R. 10 W., cor. secs. 9, 10, 15, and 16 -----	39 33 28.0	92 01 03.3	3,978
T-rd. N. near cor. secs. 15, 16, 21, and 22, T. 55 N., R. 10 W. -----	39 32 35.7	92 00 56.3	5,320
T. 55 N., R. 10 W., cor. secs. 21, 22, 27, and 28, T-rd. S. -----	39 31 43.2	92 01 07.6	5,385
T. 55 N., R. 10 W., near cor. secs. 27, 28, 33, and 34, 24 ft. N. and 21 ft. W. from T-rd. W.; iron post stamped "Prim Trav Sta No 9 1905" --	39 30 51.24	92 01 09.98	5,264
T. 55 N., R. 10 W., cor. secs. 28, 29, 32, and 33, T-rd. S. -----	39 30 51.8	92 02 17.7	5,314
T. 55 N., R. 10 W., cor. secs. 29, 30, 31, and 32, stone at T-rd. S. -----	39 30 51.4	92 03 25.6	5,314
T. 55 N., R. 10 W., cor. secs. 19, 20, 29, and 30, T-rd. W. -----	39 31 43.7	92 03 23.4	5,295
T. 55 N., Rs. 10 and 11 W., approximate cor. secs. 19, 24, 25, and 30, stone -----	39 31 46.0	92 04 31.3	5,333
T. 55 N., R. 11 W., center sec. 23, stone at T-rd. S. -----	39 32 14.4	92 06 11.5	8,362

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 55 N., R. 11 W., W. sixteenth cor. sec. 22, on County Route A, 20 ft. N. and 20 ft. E. from stone in E.-W. crossroad, in SW. corner of field of W. J. Williams; iron post stamped "Prim Trav Sta No 10 1905" -----	39 32 16.72	92 07 37.43	6,742
T-rd. N. -----	39 32 19.3	92 09 18.1	7,894
T. 55 N., R. 11 W., cor. secs. 7, 8, 17, and 18, crossroads -----	39 33 40.3	92 10 09.6	9,135
T. 55 N., Rs. 11 and 12 W., approximate cor. secs. 7, 12, 13, and 18, stone at T-rd. N. ---- Woodlawn, 0.5 mi. E., thence 1 mi. S. from, 77 ft. N. 39°15' E. of NE. corner of Oak Grove Church; iron post stamped "Prim Trav Sta No 11 1905" -----	39 33 41.6	92 11 07.0	4,498
T-rd. S. -----	39 33 47.82	92 12 31.92	6,678
Stone at crossroads -----	39 34 41.3	92 12 29.3	5,417
T-rd. -----	39 34 44.7	92 13 36.3	5,257
Center of Duncans Bridge (in Macon quadrangle; see line 3.) -----	39 34 48.8	92 15 00.9	6,637
	39 34 26.7	92 15 54.2	4,735

3. FROM HUNNEWELL QUADRANGLE AT SEC. 34, T. 55 N., R. 10 W., WEST TO SEC. 33,
T. 55 N., R. 10 W. (by S. H. Moyers in 1926)
(Continued from Hunnewell quadrangle; see line 2.)

T. 55 N., R. 10 W., center sec. 34, T-rd. S. ----	39 30 25.6	92 00 34.2	(2,750)
T. 55 N., R. 10 W., quarter cor. between secs. 33 and 34, T-rd. N. -----	39 30 25.0	92 01 10.6	2,850
Prim Trav Sta No 9 1905 (previously described) -	39 30 51.24	92 01 09.98	2,662

4. FROM SHELBYVILLE QUADRANGLE AT SEC. 10, T. 57 N., R. 10 W., SOUTH AND
EAST INTO HUNNEWELL QUADRANGLE AT SEC. 15, T. 57 N., R. 10 W. (by
Roy E. Keim in 1934)
(Continued from Newark quadrangle; see line 4.)

Shelbina, 4 mi. N. and 2 mi. E. from, E. six- teenth cor. between secs. 10 and 15, T. 57 N., R. 10 W., opposite T-rd. E., in concrete post; standard tablet stamped "64 C W A 1934" -	39 44 49.67	92 00 01.02	(2,338)
(Continued in Hunnewell quadrangle; see line 3.)			

5. FROM SEC. 16, T. 54 N., R. 12 W., EAST ALONG U.S. HIGHWAY 24 TO PARIS
(by W. V. Kennedy in 1934)*

Highway at fences N. and S. (in Moberly quad- rangle)*# -----	39 26 10.4	92 15 12.6	.....
T. 54 N., R. 12 W., near quarter cor. between secs. 15 and 16, 50 ft. N. and 35 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "64 C W A 1934" -----	39 26 08.09	92 14 40.70	2,517
Junction of rd. S. -----	39 28 06.2	92 14 08.9	2,499
T. 54 N., R. 12 W., quarter cor. between secs. 14 and 15, rd. at fence E., 263 ft. S. of cross- road -----	39 28 05.4	92 13 35.0	2,665
Junction of rd. S. -----	39 28 25.3	92 12 59.7	3,424
Madison, intersection of County Route T and Franklin Street -----	39 28 24.2	92 12 27.6	2,519
Junction of rd. N. -----	39 28 35.0	92 11 52.2	2,989
Madison, 1 mi. E. of, 48 ft. S. and 44 ft. W. from junction of rd. S., 3 ft. N. and 30 ft. W. from corner fence post, in concrete post; standard tablet stamped "1412 C W A 1934" -----	39 28 36.84	92 11 17.98	2,688
Highway at fence S. -----	39 28 44.5	92 10 44.1	2,766
Junction of rd. S. -----	39 28 48.0	92 10 16.5	2,194
Wabash Ry. at highway crossing -----	39 28 49.3	92 09 44.9	2,486
Highway at fence S., 310 ft. N. of stone at fence corner at quarter cor. between secs. 8 and 9, T. 54 N., R. 11 W. -----	39 26 48.1	92 09 08.6	2,853
Holliday triangulation sta.; U.S.C. & G.S. standard disk stamped "Holliday 1934" -----	39 29 08.11	92 09 15.86	2,100
U.S.C. & G.S. standard disk stamped "Holliday Az1 1934" -----	39 26 52.11	92 09 01.23	1,984
Junction of rd. S. -----	39 28 51.8	92 08 34.7	2,079
Junction of rd. N. at fence S. -----	39 28 52.1	92 08 01.4	2,616
Highway at fence N., 45 ft. W. of junction of rd. S. -----	39 26 53.8	92 07 28.3	2,596
Highway at fence N. -----	39 28 49.4	92 06 54.2	2,711
Abandoned crossroad -----	39 28 44.4	92 06 19.8	2,747
Holliday, 1 mi. S. and 1.5 mi. E. from, in NE 1/4 sec. 11, T. 54 N., R. 11 W., 44 ft. S. and 56 ft. W. from crossroads, 143 ft. NE. of NE. corner of farmhouse of E. H. Williams, 2 ft. inside fence, in concrete post; standard tablet stamped "1413 C W A 1934" -----	39 26 38.80	92 06 03.27	1,416

*Published also as line 3 of Madison quadrangle (see Bull. 916-0).

**Published also in Moberly quadrangle (see Bull. 916-0).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 54 N., R. 11 W., E. sixteenth cor. sec. 11, small stone, 11 ft. S. and 11 ft. E. from produced rd. corner from N.-W. -----	39 28 33.9	92 05 28.2	2,793
Crossroad -----	39 28 20.3	92 04 54.5	2,980
Highway at fence S. -----	39 28 19.2	92 04 37.3	1,356
Junction of rd. N. -----	39 28 18.5	92 03 47.2	3,932
Highway at fence N. -----	39 28 18.0	92 03 30.0	1,349
T. 54 N., R. 10 W., near quarter cor. between secs. 8 and 17, 235 ft. E. of junction of rd. N., 55 ft. S. and 24 ft. E. from junction of private rd. S., 131 ft. N. and 32 ft. W. from NW. corner of farmhouse of R. L. Clem, in concrete post; standard tablet stamped "1414 C W A 1934" -----	39 28 17.23	92 02 51.64	3,007
Highway at fence S. -----	39 28 17.6	92 02 23.4	2,214
T. 54 N., R. 10 W., quarter cor. between secs. 9 and 16, highway at fence S. -----	39 28 15.6	92 01 50.0	2,632
Junction of rd. S. at rail fence N. -----	39 28 10.4	92 01 11.8	3,041
Junction of rd. N. -----	39 28 10.4	92 00 55.3	1,290
Paris, municipal water tower in W. part of -----	39 28 53.46	92 00 36.09	4,614
Junction of State Highway 15 -----	39 28 09.0	92 00 10.3	4,928
T T Sta No 19 M 1926 (In Florida quadrangle; see line 1.) -----	39 26 58.14	91 59 59.46	5,043

6. FROM SEC. 33, T. 55 N., R. 10 W., EAST ALONG ROADS AND U.S. HIGHWAY 24
INTO HUNNEWELL QUADRANGLE (by W. V. Kennedy in 1934-35)

Prim Trav Sta No 9 1905 (previously described) - Noel triangulation sta.; U.S.C. & G.S. standard disk stamped "Noel 1934" -----	39 30 51.24	92 01 09.98	.....
U.S.C. & G.S. standard disk stamped "Noel A21 Sta" -----	39 30 50.68	92 01 09.18	85
T-rd. N. -----	39 30 38.93	92 01 09.78	1,190
T-rd. S. -----	39 30 24.9	92 01 10.6	1,424
	39 30 25.6	92 00 34.2	2,851

(Continued in Hunnewell quadrangle; see line 4.)

7. FROM HUNNEWELL QUADRANGLE WEST ALONG U.S. HIGHWAY 36 INTO MACON QUADRANGLE
(by S. T. Tudor in 1935)
(Continued from Hunnewell quadrangle; see line 5.)

Highway at fence N. on line between secs. 3 and 4, T. 56 N., R. 10 W. -----	39 41 16.6	92 00 55.5	(5,440)
Highway at fence N. -----	39 41 34.5	92 02 02.7	5,761
Shelbina, Chicago, Burlington & Quincy R.R. at Main Street crossing -----	39 41 36.5	92 02 24.5	1,713
Shelbina, Chicago, Burlington & Quincy R.R. at sta. -----	39 41 37.1	92 02 27.2	217
Shelbina triangulation sta.; U.S.C. & G.S. standard disk stamped "Shelbina 1934" -----	39 41 36.86	92 02 29.55	189
Shelbina, municipal water tower at -----	39 41 40.88	92 02 48.09	1,504
Crossroad on line between secs. 31 and 32, T. 57 N., R. 10 W. -----	39 41 48.0	92 03 10.3	1,879
Highway at fences N. and S. -----	39 41 56.0	92 03 43.9	2,747
Junction of rd. N. on line between secs. 31 and 36, T. 57 N., Rs. 10 and 11 W. -----	39 42 04.3	92 04 19.5	2,909
Highway at fences N. and S. -----	39 42 12.2	92 04 53.4	2,765
T. 57 N., R. 11 W., in SE 1/4 sec. 26, 40 ft. S. and 2 ft. E. from highway at fence N., in con- crete post; standard tablet stamped "1538 E R A 1935" -----	39 42 22.38	92 05 38.95	3,707
Crossroad -----	39 42 28.0	92 06 01.2	1,828
Highway at fences N. and S. on line between secs. 26 and 27, T. 57 N., R. 11 W. -----	39 42 35.9	92 06 35.2	2,775
Highway at fence N. -----	39 42 43.8	92 07 09.1	2,770
Crossroad on line between secs. 27 and 28, T. 57 N., R. 11 W. -----	39 42 51.8	92 07 42.9	2,760
Highway at fences N. and S. -----	39 42 59.6	92 08 16.5	2,740
Lentner, on line between secs. 28 and 29, T. 57 N., R. 11 W., 40 ft. S. and 110 ft. W. from N.-S. crossroad, in concrete post; standard tablet stamped "1539 E R A 1935" -----	39 43 07.17	92 08 51.26	2,823
Lentner, Chicago, Burlington & Quincy R.R. at sta. -----	39 43 06.6	92 08 50.8	65
Highway at fence N. -----	39 43 16.0	92 09 27.4	3,016
Highway at fence N. on line between secs. 19 and 20, T. 57 N., R. 11 W. -----	39 43 23.2	92 09 57.9	2,490
T. 57 N., R. 11 W., on N.-S. line through center sec. 19, 30 ft. S. and 13 ft. E. from U.S. Highway 36 at fence N.; iron post stamped "791 Q" -----	39 43 30.77	92 10 31.90	2,764
T. 57 N., Rs. 11 and 12 W., approximate quarter cor. between secs. 19 and 24, crossroad -----	39 43 37.5	92 10 59.4	2,255
Highway at fences N. and S. -----	39 43 45.4	92 11 33.4	2,769

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 57 N., R. 12 W., on line between secs. 23 and 24, 35 ft. N. and 60 ft. E. from N.-S. crossroad, in concrete post; standard tablet stamped "1540 E R A 1935" -----	39 43 53.59	92 12 07.07	2,756
Chicago, Burlington & Quincy R.R. at fence S. --- Highway at fences N. and S. on line between secs. 14 and 15, T. 57 N., R. 12 W. -----	39 44 01.2	92 12 45.1	3,065
Highway at fences N. and S. -----	39 44 09.0	92 13 15.0	2,469
Highway at fences N. and S. -----	39 44 16.8	92 13 48.4	2,725
Junction of rd. S. on line between secs. 15 and 16, T. 57 N., R. 12 W. -----	39 44 24.5	92 14 21.8	2,715
Chicago, Burlington & Quincy R.R. at fence S. ---	39 44 30.3	92 14 55.9	2,730

(Continued in Macon quadrangle; see line 9.)

8. FROM SHELBYNA SOUTH ALONG STATE HIGHWAY 15 TO SEC. 21, T. 56 N., R. 10 W.
(by S. T. Tudor in 1935)

Shelbina triangulation sta. (previously described) -----	39 41 36.88	92 02 29.55	.....
T. 56 N., R. 10 W., cor. secs. 4, 5, 8, and 9, highway at fences E. and W. -----	39 40 29.8	92 02 05.6	7,039
Highway at fence E. -----	39 40 03.6	92 02 06.1	2,650
T. 56 N., R. 10 W., cor. secs. 8, 9, 16, and 17, highway at fences E. and W. on Monroe-Shelby county line -----	39 39 37.4	92 02 06.5	2,650
Highway at fence W. -----	39 39 11.3	92 02 07.0	2,640
T. 56 N., R. 10 W., cor. secs. 16, 17, 20, and 21, highway at fences E. and W. -----	39 38 45.0	92 02 07.6	2,670
Prim Trav Sta No 8 1905 (previously described) -	39 38 19.23	92 02 07.74	2,602

9. FROM SHELBYVILLE QUADRANGLE AT SEC. 10, T. 57 N., R. 11 W., WEST AND SOUTH TO SEC. 19, T. 57 N., R. 11 W. (by C. D. Craig in 1937)
(Continued from Shelbyville quadrangle; see line 7.)

T. 57 N., R. 11 W., cor. secs. 9, 10, 15, and 16, crossroads -----	39 44 58.1	92 07 39.0	(6,673)
T-rd. N. -----	39 44 59.3	92 08 11.4	2,530
(For balance in Shelbyville quadrangle, see line 7.)			
Rd. at hedge fence W. -----	39 44 35.3	92 10 57.9	(2,754)
T. 57 N., R. 11 W., W. cor. secs. 18 and 19, T-rd. E., 175 ft. N. of T-rd. W. at E. cor. secs. 13 and 24, T. 57 N., R. 12 W. -----	39 44 09.2	92 10 58.6	2,645
U.S. Highway 36 at crossroad -----	39 43 37.4	92 10 59.4	3,213
791 Q (previously described) -----	39 43 30.77	92 10 31.90	2,252

10. FROM SEC. 21, T. 56 N., R. 10 W., WEST INTO MACON QUADRANGLE AT SEC. 21, T. 56 N., R. 12 W. (by C. D. Craig in 1937)

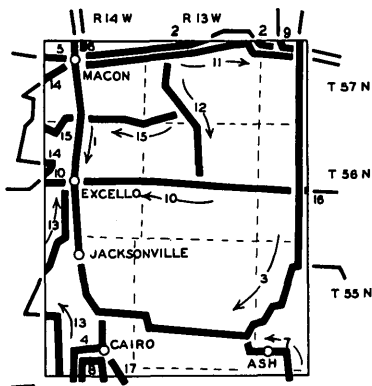
Prim Trav Sta No 8 1905 (previously described) -	39 38 19.23	92 02 07.74	.....
T. 56 N., R. 10 W., cor. secs. 20, 21, 28, and 29, State Highway 15 at rd. E. -----	39 37 52.6	92 02 08.3	2,690
Rd. at fences E. and W. -----	39 37 26.9	92 02 25.9	2,950
T. 56 N., R. 10 W., near quarter cor. between secs. 29 and 30, 10 ft. N. and 65 ft. W. from rd. forks, 3 ft. S. of fence, in concrete post; standard tablet stamped "11 B 1936" -----	39 37 26.53	92 03 13.66	3,737
Rd. at fence S., 30 ft. E. of rd. at fence N. ---	39 37 27.8	92 03 50.3	2,872
Rd. fork S. -----	39 37 15.3	92 04 24.6	2,963
Rd. corner from W.-N. -----	39 37 03.0	92 05 15.0	4,136
T. 56 N., R. 11 W., cor. secs. 25, 26, 35, and 36, rd. at fence N. -----	39 37 03.4	92 05 31.9	1,325
T-rd. S. -----	39 37 03.8	92 06 05.5	2,632
T. 56 N., R. 11 W., in SW 1/4 sec. 26, 2 ft. S. and 7 ft. E. from NE. corner of church, 35 ft. S. of rd., in concrete post; standard tablet stamped "10 B 1936" -----	39 37 05.36	92 06 21.58	1,265
Rd. corner from S.-W. -----	39 37 30.4	92 06 21.6	2,531
Rd. corner from E.-N. -----	39 37 30.7	92 06 55.4	2,650
T-rd. S. -----	39 37 57.0	92 06 54.6	2,666
T. 56 N., R. 11 W., cor. secs. 21, 22, 27, and 28, crossroads -----	39 37 57.7	92 07 45.5	3,980
Rd. at fences N. and S. -----	39 37 56.2	92 08 19.6	2,671
T. 56 N., R. 11 W., cor. secs. 20, 21, 28, and 29, 30 ft. N. and 13 ft. W. from T-rd. N., in concrete post; standard tablet stamped "9 B 1936" -----	39 37 59.06	92 08 53.93	2,686
T. 56 N., R. 11 W., cor. secs. 19, 20, 29, and 30, crossroads -----	39 37 59.7	92 10 00.6	5,218
Rd. at fences N. and S. -----	39 38 00.1	92 10 34.9	2,685
T. 56 N., R. 11 W., W. cor. secs. 19 and 30, crossroads, 25 ft. S. of E. cor. secs. 24 and 25, T. 56 N., R. 12 W. -----	39 38 00.6	92 11 08.2	2,599

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Crossroads ----- T. 56 N., R. 12 W., cor. secs. 23, 24, 25, and 26, 25 ft. N. and 130 ft. E. from rd. at fence N., 2 ft. N. and 18 ft. E. from lone elm tree, in concrete post; standard tablet stamped "8 B 1936" -----	39 38 01.2 39 38 01.95 39 38 01.8 39 38 26.2	92 11 42.1 92 12 14.04 92 12 49.7 92 12 49.1	2,655 2,503 2,788 2,667
Crossroads ----- Rd. at fences E. and W. -----			
Wood triangulation sta.; U.S.C. & G.S. standard disk stamped "Wood 1934" -----	39 38 55.04 39 38 01.8 39 38 02.6	92 12 48.49 92 12 49.7 92 13 57.8	2,715 5,333
Crossroads (previously described) ----- T-rd. N. -----			

(Continued in Macon quadrangle; see line 16.)

Magnetic declination 6° 25' E.

MACON QUADRANGLE
(Latitude 39°30'-39°45'; longitude 92°15'-92°30')
Macon, Monroe, Randolph, and Shelby Counties



1. FROM ATLANTA QUADRANGLE AT MACON SOUTH ALONG WABASH RAILWAY TO JACKSONVILLE (by George T. Hawkins in 1901)
(Continued from Atlanta quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Macon, R.R. at sta. -----	39 44 16.5	92 28 36.7	(15,360)
Crossing of Chicago, Burlington & Quincy R.R. ---	39 44 14.8	92 28 36.9	174
T. 57 N., R. 14 W., quarter cor. between secs. 27 and 28 -----	39 42 57.2	92 27 52.0	8,600
R.R. at rd. crossing -----	39 40 46.5	92 28 33.8	13,622
Excello, R.R. at sta. -----	39 38 10.1	92 28 30.0	15,816
T. 56 N., R. 14 W., S. cor. secs. 33 and 34 (?) -	39 36 27.0	92 28 10.0	10,560
Jacksonville, R.R. at sta. -----	39 35 15.8	92 28 15.2	7,215

2. FROM MACON EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO SHELBYNA QUADRANGLE (by George T. Hawkins in 1901)

Macon, Wabash Ry. at sta. (previously de-			
scribed) -----	39 44 16.5	92 28 36.7	.....
Anabel, R.R. at sta. -----	39 44 44.4	92 20 04.8	40,100
(For balance in Atlanta quadrangle, see line 2.)			
R.R. at line between secs. 13 and 18, T. 57 N.,			
Rs. 12 and 13 W. -----	39 44 38.9	92 17 40.1	(10,646)
Clarence, R.R. at sta. -----	39 44 32.9	92 15 39.6	9,397

(Continued in Shelbyna quadrangle; see line 1.)

*Results not of third-order accuracy.

221629 O-40-6

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

3. FROM ATLANTA QUADRANGLE AT CLARENCE SOUTHWEST TO SEC. 25, T. 55 N., R. 13 W., THENCE WEST AND NORTHWEST TO JACKSONVILLE (by J. R. Ellis in 1905)

(Continued from Atlanta quadrangle; see line 3.)

Clarence, Chicago, Burlington & Quincy R.R. at sta. (previously described) -----	39 44 32.9	92 15 39.6	(2,996)
Clarence, in city park, 30 ft. S. and 25 ft. W. from intersection of Center and Walnut Streets, 120 ft. S. of track; iron post stamped "Prim Trav Sta No 18 1905 823" -----	39 44 31.61	92 15 39.97	111
T. 57 N., R. 12 W., cor. secs. 16, 17, 20, and 21, T-rd. W., 18 ft. E. of center of small bridge -----	39 44 08.4	92 15 30.3	2,477
T. 57 N., R. 12 W., cor. secs. 20, 21, 26, and 29, crossroads -----	39 43 15.7	92 15 32.2	5,324
T. 57 N., R. 12 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 42 23.0	92 15 34.2	5,334
Clarence, 3.5 mi. S. of, near SW. cor. sec. 33, T. 57 N., R. 12 W., 33 ft. N. and 70 ft. W. from crossroads, 4 ft. N. and 3 ft. W. from telephone pole; iron post stamped "Prim Trav Sta No 19 1905 787 Adj" -----	39 41 30.69	92 15 35.67	5,293
T. 56 N., R. 12 W., cor. secs. 4, 5, 8, and 9, crossroads -----	39 40 40.9	92 15 34.8	5,029
T-rd. E. just N. of bridge over Otter Creek -----	39 39 50.5	92 15 36.3	5,100
Enterprise, cor. secs. 16, 17, 20, and 21, T. 56 N., R. 12 W., 33 ft. N. and 26 ft. W. from crossroads, 48 ft. N. and 5 ft. E. from NE. corner of Enterprise Store; iron post stamped "Prim Trav Sta No 20 1905 811 Adj" -----	39 38 56.20	92 15 38.05	5,496
T. 56 N., R. 12 W., cor. secs. 20, 21, 28, and 29, stone at crossroads -----	39 38 03.3	92 15 39.3	5,353
T. 56 N., R. 12 W., cor. secs. 28, 29, 32, and 33, crossroads -----	39 37 10.6	92 15 40.9	5,323
T. 56 N., R. 12 W., S. cor. secs. 32 and 33, T-rd. N. on Monroe-Shelby county line -----	39 36 18.1	92 15 42.5	5,322
T-rd. W. -----	39 35 30.8	92 15 50.5	4,827
Duncans Bridge, in SE. corner of yard of Ferd Wedd (? F. Wedding); iron post stamped "Prim Trav Sta No 21 1905 717 Adj" -----	39 34 31.23	92 15 50.05	6,020
Center of Duncans Bridge -----	39 34 26.7	92 15 54.2	570
Capp Branch, center of bridge over -----	39 33 51.6	92 16 28.0	4,425
Center of small bridge at T-rd. N. -----	39 33 07.1	92 16 46.0	4,719
T. 55 N., R. 12 W., center sec. 19, stone -----	39 32 41.2	92 17 38.0	4,655
T. 55 N., R. 13 W., quarter cor. between secs. 24 and 25, at T-rd. N., in SE. corner of field of Ewing Alexander, 17 ft. N. 55°30' E. of hickory tree; iron post stamped "Prim Trav Sta No 12 1905" -----	39 32 16.71	92 18 45.89	5,858
T. 55 N., R. 13 W., quarter cor. between secs. 26 and 27, stone -----	39 31 53.8	92 20 29.4	8,430
T. 55 N., R. 13 W., quarter cor. between secs. 27 and 28, crossroads -----	39 31 55.5	92 21 38.1	5,386
T. 55 N., R. 13 W., quarter cor. between secs. 28 and 29, crossroads -----	39 31 56.9	92 22 45.8	5,307
T. 55 N., R. 13 W., quarter cor. between secs. 29 and 30, T-rd. S. -----	39 31 58.4	92 23 52.9	5,252
T. 55 N., R. 13 W., quarter cor. between secs. 19 and 30, stone at crossroads -----	39 32 25.1	92 24 27.6	3,835
Cairo, 2 mi. N. of, cor. secs. 23, 24, 25, and 26, T. 55 N., R. 14 W., at crossroads; iron post stamped "Prim Trav Sta No 13 1905" -----	39 32 26.98	92 26 20.22	8,902
Wabash Ry. at rd. crossing, 1,400 ft. N. of milepost 162 -----	39 33 47.1	92 27 39.6	10,222
Jacksonville, R.R. at sta. (previously described) -----	39 35 15.8	92 28 15.2	9,350

4. FROM SEC. 26, T. 55 N., R. 14 W., SOUTHWEST INTO MOBERLY QUADRANGLE AT SEC. 5, T. 54 N., R. 14 W. (by E. L. McNair in 1912)

Prim Trav Sta No 13 1905 (previously described) -----	39 32 26.98	92 26 20.22	.....
T. 55 N., R. 14 W., cor. secs. 25, 26, 35, and 36, T-rd. E. -----	39 31 34.0	92 26 21.6	5,360
Cairo, Wabash Ry. at rd. crossing, 500 ft. S. of sta. -----	39 30 42.2	92 26 25.5	5,251
T. 55 N., R. 14 W., S. cor. secs. 34 and 35, T-rd. N. -----	39 30 43.0	92 27 31.0	5,140
Tps. 54 and 55 N., R. 14 W., approximate cor. secs. 3, 4, 33, and 34, T-rd. S. -----	39 30 44.0	92 28 38.7	5,300
Tps. 54 and 55 N., R. 14 W., approximate cor. secs. 4, 5, 32, and 33, T-rd. S. -----	39 30 45.0	92 29 46.0	5,282
T. 54 N., R. 14 W., 57 ft. SE. of stone at cor. secs. 4, 5, 6, and 9, in churchyard; iron post stamped "Prim Trav Sta No 1 Mo 1912" (in Moberly quadrangle)* -----	39 29 53.09	92 29 47.48	5,262

* Published also in Moberly quadrangle (see Bull. 916-0).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

5. FROM COLLEGE MOUND QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD TO MACON (by C. R. Fisher in 1924)
(Continued from College Mound quadrangle; see line 2.)

R.R. at milepost 71 -----	39 44 13.5	92 29 03.1	(5,260)
Crossing of Wabash Ry. (previously described) ---	39 44 14.8	92 28 36.9	2,048
Macon, Wabash Ry. at sta. -----*	39 44 21.9	92 28 36.1	711
Macon, in courthouse yard, at S. end of meridian line, in granite post; standard tablet stamped "Prim Trav Sta No 73 F 1924" -----	39 44 30.81	92 28 22.57	1,378
Macon, N. mark of meridian line -----	39 44 33.2	92 28 22.6	246

6. FROM MACON NORTH ALONG U.S. HIGHWAY 63 INTO ATLANTA QUADRANGLE
(by S. T. Tudor in 1934)

Prim Trav Sta No 73 F 1924 (previously described)	39 44 30.81	92 28 22.57	.....
Macon, intersection of McKay and Rutherford Streets -----	39 44 48.1	92 28 10.1	1,998

(Continued in Atlanta quadrangle; see line 4.)

7. FROM MOBERLY QUADRANGLE AT SEC. 5, T. 54 N., R. 12 W., NORTHWEST TO SEC. 25, T. 55 N., R. 13 W. (by Roy E. Keim in 1934)

T. 54 N., R. 12 W., center sec. 5, 35 ft. N. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "57 C W A 1934" (in Moberly quadrangle)**-----	39 29 59.54	92 16 19.55	.....
Rd. at fence W. -----	39 30 25.9	92 16 02.6	2,978
T-rd. N. -----	39 30 52.1	92 16 15.2	2,834
Rd. at fences N. and S. -----	39 30 53.8	92 16 49.8	2,721
Ash, 35 ft. NE. of NE. corner of Hickory Grove Baptist Church, 100 ft. S. and 72 ft. W. from crossroads, 5 ft. SW. of 36-in. oak tree; iron post stamped "1905 812 Adj" -----	39 30 53.26	92 17 24.49	2,723
Rd. at fences E. and W. -----	39 31 21.1	92 17 23.5	2,814
Cross fences -----	39 31 34.2	92 17 05.6	1,939
T. 55 N., R. 12 W., near E. sixteenth cor. between secs. 19 and 30, 120 ft. S. and 15 ft. W. from T-rd. E., 23 ft. S. and 15 ft. W. from T-rd. W.; iron post stamped "1905 777 Adj" ---	39 32 13.18	92 17 05.10	3,940
T-rd. S. -----	39 32 15.2	92 17 38.8	2,645
Rd. at fences N. and S. -----	39 32 15.9	92 18 28.8	3,923
Prim Trav Sta No 12 1905 (previously described)-	39 32 16.71	92 18 45.89	1,344

8. FROM MOBERLY QUADRANGLE AT SEC. 4, T. 54 N., R. 14 W., EAST TO CAIRO, THENCE SOUTH ALONG U.S. HIGHWAY 63 INTO MOBERLY QUADRANGLE (by W. V. Kennedy in 1934)

T. 54 N., R. 14 W., cor. secs. 3, 4, 9, and 10, crossroads (in Moberly quadrangle)*-----	39 29 50.2	92 26 40.4	.....
T. 54 N., R. 14 W., quarter cor. between secs. 3 and 4, rd. at fence E. -----	39 30 16.3	92 28 39.4	2,639
T-rd. S. -----	39 30 44.0	92 28 38.3	2,804
T. 54 N., R. 14 W., N. quarter cor. sec. 3, rd. at fence S., 195 ft. E. of rd. at fence N. at S. quarter cor. sec. 34, T. 55 N., R. 14 W. ---	39 30 43.6	92 28 04.6	2,640
T. 55 N., R. 14 W., S. cor. secs. 34 and 35, T-rd. N., 20 ft. E. of rd. at fence S. at N. cor. secs. 2 and 3, T. 54 N., R. 14 W. -----	39 30 43.1	92 27 30.4	2,681
T. 54 N., R. 14 W., N. quarter cor. sec. 2, T-rd. S., 64 ft. E. of T-rd. N. at S. quarter cor. sec. 35, T. 55 N., R. 14 W. -----	39 30 42.7	92 26 57.4	2,590
Cairo, at NE. corner of Bank of Cairo, in N. face of wall 4 ft. above concrete sidewalk; standard tablet stamped "1905 864 Adj" -----	39 30 42.12	92 26 27.71	2,328
T. 55 N., R. 14 W., S. cor. secs. 35 and 36 -----	39 30 42.3	92 26 22.9	375
Highway at fence E., 22 ft. N. and 5 ft. W. from highway at rd. W. produced -----	39 30 16.9	92 26 16.6	2,610
Crossroad (in Moberly quadrangle)*-----	39 29 50.3	92 26 08.9	2,760

9. FROM SHELBYNA QUADRANGLE AT CLARENCE NORTH ALONG COUNTY ROUTE C INTO ATLANTA QUADRANGLE (by S. T. Tudor in 1935)
(Continued from Shelbyna quadrangle; see line 7.)

Clarence, Chicago, Burlington & Quincy R.R. at sta. -----	39 44 32.9	92 15 39.6	(3,423)
Prim Trav Sta No 18 1905 823 (previously described) -----	39 44 31.61	92 15 39.97	129
Clarence, municipal water tower at -----	39 44 34.3	92 15 55.8	1,264

(Continued in Atlanta quadrangle; see line 7.)

*This position does not agree with old position possibly due to change of location of railroad station.

**Published also in Moberly quadrangle (see Bull. 916-8).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

10. FROM ENTERPRISE WEST INTO COLLEGE MOUND QUADRANGLE AT SEC. 20, T. 56 N.,
R. 14 W. (by C. W. Williams in 1936)

Prim Trav Sta No 20 1905 811 Adj (previously described)	39 38 56.20	92 15 38.05	.....
Rd. at fences E. and W. -----	39 38 29.5	92 15 38.5	2,699
Rd. at fence N. -----	39 38 03.1	92 16 13.2	3,805
T. 56 N., R. 12 W., cor. secs. 19, 20, 29, and 30, crossroads -----	39 38 03.1	92 16 38.1	1,950
Rd. at fence S. -----	39 38 03.3	92 17 12.8	2,714
T. 56 N., R. 13 W., E. cor. secs. 24 and 25, 37 ft. S. and 21 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 4 W 1936" -----	39 38 03.40	92 17 54.95	3,293
T. 56 N., R. 13 W., cor. secs. 23, 24, 25, and 26, rd. at fence N. -----	39 38 04.7	92 19 02.6	5,292
T-rd. N., 10 ft. W. of T-rd. S. -----	39 38 05.0	92 19 36.2	2,630
T-rd. S. -----	39 38 05.7	92 20 26.7	3,948
Salt River, center of bridge over -----	39 38 05.9	92 20 37.0	810
T. 56 N., R. 13 W., in SE 1/4 sec. 21, 40 ft. S. and 5 ft. W. from dwelling of H. E. Collins, 30 ft. N. of rd., in concrete post; standard tablet stamped "T T 5 W 1936" -----	39 38 06.90	92 21 38.80	4,821
T-rd. S. -----	39 38 06.6	92 21 51.2	696
T. 56 N., R. 13 W., cor. secs. 20, 21, 28, and 29, corner of fences S. and W. -----	39 38 06.9	92 22 25.3	2,663
Cox, crossroads at -----	39 38 13.9	92 22 58.5	2,697
T-rd. N. -----	39 38 14.1	92 23 31.9	2,606
T. 56 N., R. 14 W., E. cor. secs. 24 and 25, 21 ft. N. and 70 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T 6 W 1936" -----	39 38 09.05	92 24 39.60	5,323
T-rd. N. -----	39 38 09.1	92 25 12.2	2,546
T-rd. N., 675 ft. W. of T-rd. S. -----	39 38 10.0	92 26 19.8	5,291
T. 56 N., R. 14 W., cor. secs. 22, 23, 26, and 27, rd. at fences N. and S. -----	39 38 10.5	92 26 53.7	2,647
U.S. Highway 63 at crossroad -----	39 38 10.9	92 28 01.8	5,323
U.S.C. & G.S. standard disk stamped "A 122 1935" -----	39 38 11.80	92 28 29.66	2,183
T. 56 N., R. 14 W., cor. secs. 20, 21, 28, and 29, rd. at fences N. and S. -----	39 38 11.4	92 29 08.8	3,060
Crossroads (In College Mound quadrangle; see line 5.) -----	39 38 12.0	92 30 16.3	5,280

11. FROM MACON EAST TO SEC. 13, T. 57 N., R. 14 W., THENCE EAST ALONG
CHICAGO, BURLINGTON & QUINCY RAILROAD TO CLARENCE (by C. W. Williams
in 1936)

Prim Trav Sta No 73 F 1924 (previously described)	39 44 30.81	92 28 22.57	.....
Macon, intersection of U.S. Highway 63 and Vine Street -----	39 44 15.4	92 27 54.7	2,677
Rd. at fences N. and S. -----	39 44 15.1	92 26 57.8	4,441
T. 57 N., R. 14 W., W. sixteenth cor. between secs. 14 and 23, T-rd. S. -----	39 44 14.6	92 26 24.0	2,635
R.R. at rd. crossing -----	39 44 12.1	92 25 27.4	4,433
T. 57 N., R. 14 W., in SE 1/4 sec. 13, 32 ft. S. and 14 ft. W. from R.R. at private rd. crossing, 263 ft. E. of milepost 67, in concrete post; standard tablet stamped "T T 18 W 1936" -----	39 44 23.26	92 24 31.98	4,469
R.R. at fence S. -----	39 44 37.4	92 23 51.4	3,680
R.R. at rd. crossing -----	39 44 47.3	92 23 00.1	4,124
R.R. at fences N. and S. -----	39 44 48.1	92 22 09.2	3,975
T. 57 N., R. 13 W., in N 1/2 sec. 16, 33 ft. N. and 34 ft. E. from R.R. at rd. crossing, in concrete post; standard tablet stamped "T T 19 W 1936" -----	39 44 48.21	92 21 34.82	2,684
R.R. at rd. crossing -----	39 44 46.3	92 20 50.8	3,439
Anabel, R.R. at sta. -----	39 44 44.4	92 20 04.8	3,602
T-rd. W. -----	39 44 45.2	92 19 54.0	848
R.R. at fences N. and S. -----	39 44 41.0	92 16 46.7	5,114
Clarence, 2.3 mi. W. of, in N 1/2 sec. 13, T. 57 N., R. 13 W., 50 ft. S. and 2 ft. E. from R.R. at fences N. and S., in concrete post; standard tablet stamped "T T 20 W 1936" -----	39 44 39.07	92 18 14.50	2,679
R.R. at fences N. and S. on Macon-Shelby county line -----	39 44 38.1	92 17 40.8	2,629
R.R. at fences N. and S. -----	39 44 35.3	92 16 37.7	4,940
Prim Trav Sta No 18 1905 823 (previously described) -----	39 44 31.61	92 15 39.97	4,524

12. FROM SEC. 17, T. 57 N., R. 13 W., SOUTH TO SEC. 21, T. 56 N., R. 13 W.
(by C. W. Williams in 1936)

R.R. at rd. crossing (previously described) -----	39 44 47.3	92 23 00.1	.....
T-rd. N. -----	39 44 11.3	92 23 01.7	3,638

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 57 N., R. 13 W., cor. secs. 17, 18, 19, and 20, T-rd. S. -----	39 44 11.7	92 23 18.6	1,323
T-rd. E. -----	39 43 45.5	92 23 19.5	2,650
Rd. at rd. W. produced, 100 ft. N. of rd. at rd. E. produced -----	39 43 06.4	92 23 20.8	3,959
T. 57 N., R. 13 W., cor. secs. 29, 30, 31, and 32, 25 ft. S. and 1 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 21 W 1936" -----	39 42 27.00	92 23 22.38	3,989
Crossroads -----	39 42 27.0	92 23 05.5	1,320
Crossroads -----	39 42 26.7	92 22 32.0	2,617
T. 57 N., R. 13 W., E. sixteenth cor. on S. line secs. 32, T-rd. N. -----	39 41 34.6	92 22 33.9	5,270
T. 56 N., R. 13 W., N. quarter cor. sec. 4, T-rd. S. -----	39 41 33.9	92 21 46.6	3,702
T. 56 N., R. 13 W., quarter cor. between secs. 4 and 9, 17 ft. N. of E.-W. rd., 42 ft. W. of rd. N., 27 ft. W. of rd. S., in concrete post; standard tablet stamped "T T 22 W 1936" -----	39 40 43.09	92 21 48.25	5,141
T. 56 N., R. 13 W., quarter cor. between secs. 9 and 16, crossroads -----	39 39 50.8	92 21 49.0	5,295
T. 56 N., R. 13 W., quarter cor. between secs. 16 and 21, rd. at fences E. and W. -----	39 38 58.5	92 21 50.2	5,285
T T 5 W 1936 (previously described) -----	39 38 06.90	92 21 38.80	5,298

13. FROM MOBERLY QUADRANGLE AT SEC. 4, T. 54 N., R. 14 W., NORTH TO JACKSONVILLE, THENCE NORTH ALONG WABASH RAILWAY TO EXCELLO (by C. W. Williams in 1936)

Prim Trav Sta No 1 Mo 1912 (previously described) -----	39 29 53.09	92 29 47.48	.....
T-rd. E. -----	39 31 01.6	92 29 45.3	6,933
T. 55 N., R. 14 W., W. sixteenth cor. sec. 33, T-rd. N. -----	39 31 11.2	92 29 28.1	1,658
T. 55 N., R. 14 W., W. sixteenth cor. sec. 28, 20 ft. N. and 12 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 13 W 1936" -----	39 32 03.69	92 29 26.34	5,317
(For balance in College Mound quadrangle, see line 4.)			
Junction of abandoned rd. N. -----	39 35 07.6	92 29 54.2	(5,693)
T-rd. S. -----	39 35 23.4	92 29 18.8	3,204
U.S.C. & G.S. standard tablet stamped "C 122 1935" -----	39 35 16.62	92 28 14.77	5,056
Jacksonville, R.R. at signal tower -----	39 35 15.8	92 28 15.2	86
R.R. at rd. crossing -----	39 35 46.7	92 28 16.9	3,123
R.R. at rd. crossing on Macon-Randolph county line -----	39 36 27.4	92 28 19.3	4,120
U.S.C. & G.S. standard disk stamped "B 122 1935" -----	39 36 45.36	92 28 20.68	1,822
R.R. at rd. crossing -----	39 37 19.2	92 28 24.0	3,438
Excello, R.R. at sta. -----	39 38 10.1	92 28 30.0	5,162
A 122 1935 (previously described) -----	39 38 11.80	92 28 29.66	178

14. FROM MACON SOUTH INTO COLLEGE MOUND QUADRANGLE AT SEC. 20, T. 56 N., R. 14 W. (by C. W. Williams in 1936)

Prim Trav Sta No 73 F 1924 (previously described)	39 44 30.81	92 28 22.57	.....
Center of bridge over Chicago, Burlington & Quincy R.R. -----	39 44 15.0	92 28 40.8	2,141
Rd. at fences N. and S. -----	39 43 55.1	92 28 30.5	4,379
(For balance in College Mound quadrangle, see line 5.)			
T-rd. S. -----	39 39 03.4	92 29 58.1	(1,323)
Rd. corner from N.-W. -----	39 38 37.8	92 29 58.8	2,596
(Continued in College Mound quadrangle; see line 5.)			

15. FROM SEC. 32, T. 57 N., R. 13 W., WEST INTO COLLEGE MOUND QUADRANGLE AT SEC. 5, T. 56 N., R. 14 W. (by C. W. Williams in 1936)

T-rd. N. (previously described) -----	39 41 34.6	92 22 33.9	.....
T. 57 N., R. 13 W., W. sixteenth cor. on S. line sec. 32, T-rd. N. -----	39 41 35.0	92 23 07.5	2,624
T. 56 N., R. 13 W., N. sixteenth cor. between secs. 5 and 6, T-rd. W. -----	39 41 22.5	92 23 27.1	1,987
T-rd. E. -----	39 41 23.2	92 24 16.7	3,881
T. 57 N., R. 13 and 14 W., S. cor. secs. 31 and 36, T-rd. N. -----	39 41 36.1	92 24 32.1	1,775
T. 56 N., R. 14 W., N. cor. secs. 1 and 2, 3 ft. S. and 21 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T 23 W 1936" -	39 41 37.28	92 25 39.99	5,308

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Rd. at fence W. -----	39 41 38.1	92 26 46.8	5,226
T. 57 N., R. 14 W., S. quarter cor. sec. 34, T-rd. N., 264 ft. E. of T-rd. S. -----	39 41 38.6	92 27 20.7	2,644
T. 57 N., R. 14 W., S. cor. secs. 33 and 34, U.S. Highway 63 at crossroad -----	39 41 38.8	92 27 54.6	2,648
T. 56 N., R. 14 W., in NE 1/4 sec. 4, 13 ft. S. and 15 ft. E. from rd. corner from N.-W., 8 ft. N. and 2 ft. W. from SW. corner of yard of George McDowell, in concrete post; standard tablet stamped "T T 24 W 1936" -----	39 41 19.24	92 28 13.65	2,482
Wabash Ry. at rd. crossing -----	39 40 46.7	92 28 33.7	3,644
T-rd. N. -----	39 40 46.8	92 29 04.7	2,427
Rd. at fence N. -----	39 41 04.4	92 29 33.0	2,834
Crossroads (In College Mound quadrangle; see line 5.) -----	39 41 13.2	92 30 28.4	4,421

16. FROM SHELBYNA QUADRANGLE AT SEC. 21, T. 56 N., R. 12 W., NORTH TO
ENTERPRISE (by C. D. Craig in 1937)
(Continued from Shelbyna quadrangle; see line 10.)

Rd. at fence N. -----	39 38 03.2	92 15 05.6	(5,299)
T. 56 N., R. 12 W., cor. secs. 20, 21, 28, and 29, County Route B at crossroad -----	39 38 03.2	92 15 39.4	2,643
Prim Trav Sta No 20 1905 811 Adj (previously described) -----	39 38 56.20	92 15 38.05	5,359

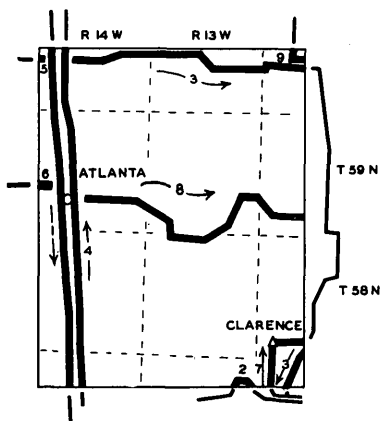
17. FROM CAIRO SOUTH ALONG U.S. HIGHWAY 63 INTO MOBERLY QUADRANGLE (fourth-
order traverse by State Highway Department in 1934)

Cairo, Wabash Ry. at rd. crossing (previously described) -----	39 30 42.2	92 26 25.5	.....
Junction of rd. W. -----	39 30 16.7	92 26 16.9	2,642
Crossroad (in Moberly quadrangle)* -----	39 29 50.3	92 26 08.9	2,715

Magnetic declination 6° 18' E.

ATLANTA QUADRANGLE
(Latitude 39°45'-40°00'; longitude 92°15'-92°30')

Knox, Macon, and Shelby Counties



1. FROM La PLATA QUADRANGLE SOUTH ALONG WABASH RAILWAY INTO MACON
QUADRANGLE (by George T. Hawkins in 1901)**
(Continued from La Plata quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 60 N., R. 14 W., cor. secs. 17, 18, 19, and 20 -----	39 59 56.8	92 29 37.9	(9,102)
T. 59 N., R. 14 W., quarter cor. between secs. 5 and 8 -----	39 56 25.6	92 29 11.8	21,456
Atlanta, R.R. at sta. -----	39 53 57.5	92 28 50.9	15,074
T. 59 N., R. 14 W., S. cor. secs. 32 and 33 -----	39 52 05.2	92 28 38.1	11,396

*Published also in Moberly quadrangle (see Bull. 916-G).

**Results not of third-order accuracy.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 56 N., R. 14 W., cor. secs. 8, 9, 16, and 17 -----*	39 50 20.5	92 28 41.3	10,596
R.R. at line between secs. 5 and 32, Tps. 57 and 58 N., R. 14 W. -----*	39 46 48.4	92 28 38.0	21,440

(Continued in Macon quadrangle; see line 1.)

2. FROM MACON QUADRANGLE AT SEC. 15, T. 57 N., R. 13 W., SOUTH INTO MACON QUADRANGLE AT SEC. 14, T. 57 N., R. 13 W. (by George T. Hawkins in 1901)
(Continued from Macon quadrangle; see line 2.)

T. 57 N., R. 13 W., cor. secs. 10, 11, 14, and 15 -----*	39 45 00.5	92 19 53.7	(1,822)
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(Continued in Macon quadrangle; see line 2.)

3. FROM SEC. 20, T. 60 N., R. 14 W., EAST TO SEC. 21, T. 60 N., R. 12 W., THENCE SOUTH INTO MACON QUADRANGLE AT CLARENCE (by J. R. Ellis in 1905)

T. 60 N., R. 14 W., cor. secs. 17, 18, 19, and 20 (previously described) -----	39 59 56.8	92 29 37.9	.....
T. 60 N., R. 14 W., in NE. cor. of NW 1/4 sec. 20, near T-rd. S., in NE. corner of field, in concrete post; aluminum tablet stamped "Prim Trav Sta No 1 1905" -----	39 59 56.05	92 29 04.42	2,600
T. 60 N., R. 14 W., cor. secs. 16, 17, 20, and 21, T-rd. N. -----	39 59 55.9	92 28 30.8	2,623
T. 60 N., R. 14 W., cor. secs. 15, 16, 21, and 22, T-rd. N. -----	39 59 54.8	92 27 23.1	5,270
T. 60 N., R. 14 W., cor. secs. 14, 15, 22, and 23, T-rd. S. -----	39 59 53.7	92 26 15.3	5,278
T. 60 N., R. 14 W., cor. secs. 13, 14, 23, and 24, rd. at hedge fence N. -----	39 59 52.9	92 25 07.2	5,292
Bear Creek, center of bridge over -----	39 59 52.5	92 23 35.5	7,137
T. 60 N., R. 13 W., quarter cor. between secs. 17 and 20, near T-rd. W., in SE. corner of field; iron post stamped "Prim Trav Sta No 2 1905" -----	39 59 51.31	92 22 18.55	5,994
T-rd. N. -----	39 59 37.9	92 21 10.9	5,433
Rd. at Knox-Macon county line -----	39 59 36.1	92 20 36.8	2,661
T-rd. W. -----	39 59 21.9	92 19 28.4	5,504
T-rd. S. -----	39 59 20.6	92 18 03.9	6,578
T-rd. S. -----	39 59 58.8	92 16 47.8	7,079
T-rd. W. -----	39 59 55.5	92 15 57.0	3,960

(For balance in Shelbyville quadrangle, see line 1.)

T. 57 N., R. 12 W., N. cor. secs. 4 and 5, rd. fork SE. -----	39 46 43.9	92 15 25.0	(2,429)
T. 57 N., R. 12 W., cor. secs. 4, 5, 8, and 9, crossroads -----	39 45 53.4	92 15 26.9	5,112
Clarence, T-rd. W. at cemetery in N. part of -----	39 45 01.1	92 15 28.6	5,294

(Continued in Macon quadrangle; see line 3.)

4. FROM MACON QUADRANGLE NORTH ALONG U.S. HIGHWAY 63 INTO La PLATA QUADRANGLE (by S. T. Tudor in 1934)
(Continued from Macon quadrangle; see line 6.)

Junction of U.S. Highway 36 -----	39 45 07.6	92 28 03.7	(2,043)
Crossroad -----	39 45 59.1	92 28 09.8	5,224
Highway at fence E. -----	39 46 28.6	92 28 30.5	3,401
Tps. 57 and 58 N., R. 14 W., approximate cor. secs. 4, 5, 32, and 33, 65 ft. S. and 10 ft. W. from crossroad, in concrete post; standard tablet stamped "780 C W A 1934" -----	39 46 50.46	92 28 46.40	2,532
Crossroad -----	39 47 17.2	92 28 51.7	2,741
Highway at fences E. and W. on line between secs. 28 and 33, T. 58 N., R. 14 W. -----	39 47 43.3	92 28 37.1	2,873
Crossroad -----	39 48 09.3	92 28 28.4	2,716
Highway at fences E. and W. on line between secs. 21 and 28, T. 58 N., R. 14 W. -----	39 48 35.6	92 28 27.6	2,660
Highway at fences E. and W. -----	39 49 01.5	92 28 22.2	2,655
Axtell, 120 ft. S. and 70 ft. W. from crossroad, in concrete post; standard tablet stamped "781 C W A 1934" -----	39 49 26.34	92 28 23.50	2,517
Crossroad -----	39 49 53.8	92 28 29.8	2,823
Crossroad on line between secs. 8 and 17, T. 58 N., R. 14 W. -----	39 50 20.6	92 28 44.1	2,934
Highway at fence E. -----	39 50 47.0	92 28 52.0	2,736
Crossroad on line between secs. 5 and 8, T. 58 N., R. 14 W. -----	39 51 13.1	92 28 44.1	2,718
Highway at fences E. and W. -----	39 51 39.1	92 28 36.5	2,697

*Results not of third-order accuracy.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Tps. 58 and 59 N., R. 14 W., on line between secs. 5 and 32, 50 ft. N. and 30 ft. W. from crossroad, in concrete post; standard tablet stamped "786 C W A 1934" -----	39 52 05.75	92 28 42.24	2,730
Highway at fences E. and W. -----	39 52 31.2	92 28 36.2	2,622
Crossroad -----	39 52 57.2	92 28 28.0	2,698
Junction of rd. E. -----	39 53 23.2	92 28 44.4	2,924
Crossroad -----	39 53 51.5	92 28 45.7	2,868
Highway at fences E. and W. -----	39 54 15.2	92 28 45.4	2,400
T. 59 N., R. 14 W., near E. sixteenth cor. be- tween secs. 17 and 20, 400 ft. N. and 35 ft. W. from highway at fence E., in concrete post; standard tablet stamped "787 C W A 1934" -----	39 54 40.70	92 28 49.17	2,595
Junction of rd. W. -----	39 55 07.4	92 28 51.6	2,705
T. 59 N., R. 14 W., E. sixteenth cor. between secs. 8 and 17, highway at fences E. and W. ---	39 55 33.3	92 28 50.7	2,630
Crossroad -----	39 55 59.4	92 28 50.1	2,639
T. 59 N., R. 14 W., E. sixteenth cor. between secs. 5 and 8, crossroads -----	39 56 25.5	92 28 49.3	2,641
Highway at fences E. and W. -----	39 56 51.6	92 28 48.66	2,641
T. 59 N., R. 14 W., E. sixteenth cor. on N. line sec. 5, 430 ft. S. and 45 ft. W. from T-rd. S., 40 ft. NE. of highway on curve, in concrete post; standard tablet stamped "788 C W A 1934" ---	39 57 13.45	92 28 48.65	2,211
T. 60 N., R. 14 W., center sec. 32, highway at fence E. -----	39 57 45.4	92 29 08.3	3,577
Crossroad -----	39 58 11.6	92 29 07.5	2,650
Highway at fence W. -----	39 58 37.6	92 29 06.8	2,630
T. 60 N., R. 14 W., quarter cor. between secs. 20 and 29, crossroad -----	39 59 03.8	92 29 05.9	2,651
Highway at fences E. and W. -----	39 59 30.1	92 29 05.0	2,670
T. 60 N., R. 14 W., quarter cor. between secs. 17 and 20, 45 ft. S. and 40 ft. E. from U.S. Highway 63 at crossroad, in concrete post; standard tablet stamped "789 C W A 1934" -----	39 59 55.79	92 29 03.85	2,597

(Continued in La Plata quadrangle; see line 6.)

5. FROM ELMER QUADRANGLE AT SEC. 19, T. 60 N., R. 14 W., EAST TO SEC. 20,
T. 60 N., R. 14 W. (by S. T. Tudor in 1935)
(Continued from Elmer quadrangle; see line 3.)

U.S.C. & G.S. standard disk stamped "K 121 1935"	39 59 46.27	92 29 38.59	(4,945)
789 C W A 1934 (previously described) -----	39 59 55.79	92 29 03.85	2,869

6. FROM SEC. 17, T. 59 N., R. 14 W., WEST INTO ELMER QUADRANGLE AT SEC. 19,
T. 59 N., R. 14 W. (by S. T. Tudor in 1935)

787 C W A 1934 (previously described) -----	39 54 40.70	92 28 49.17	.....
Rd. at fence S. -----	39 53 51.6	92 29 10.9	5,253
T. 59 N., R. 14 W., cor. secs. 19, 20, 29, and 30, T-rd. S. -----	39 53 50.0	92 29 44.7	2,638

(Continued in Elmer quadrangle; see line 4.)

7. FROM MACON QUADRANGLE NORTH ALONG COUNTY ROUTE C TO SEC. 4, T. 57 N.,
R. 12 W., THENCE EAST ALONG ROADS INTO SHELBYVILLE QUADRANGLE AT
SEC. 33, T. 56 N., R. 12 W. (by S. T. Tudor in 1935)
(Continued from Macon quadrangle; see line 9.)

T. 57 N., R. 12 W., cor. secs. 8, 9, 16, and 17, highway at fence W. -----	39 45 01.0	92 15 28.5	(3,433)
Highway at fence W. -----	39 45 27.1	92 15 27.7	2,644
T. 57 N., R. 12 W., cor. secs. 4, 5, 8, and 9, crossroad -----	39 45 53.4	92 15 26.9	2,666
Highway at fence E. -----	39 46 19.7	92 15 25.8	2,656
Clarence triangulation sta.; U.S.C. & G.S. standard disk stamped "Clarence 1934" -----	39 46 48.97	92 15 27.17	2,967
Prim Trav Sta No 17 1905 803 Adj (in Shelbyville quadrangle; see line 1.) -----	39 46 44.54	92 14 53.95	2,632

8. FROM SEC. 17, T. 59 N., R. 14 W., EAST ALONG COUNTY ROUTE M TO SEC. 25,
T. 59 N., R. 14 W., THENCE EAST ALONG ROADS INTO SHELBYVILLE QUADRANGLE
AT SEC. 26, T. 59 N., R. 12 W. (by C. W. Williams in 1936)

787 C W A 1934 (previously described) -----	39 54 40.70	92 28 49.17	.....
Atlanta, junction of U.S. Highway 63 -----	39 53 55.5	92 28 45.7	4,584
Highway at fences N. and S. -----	39 53 48.5	92 27 46.4	4,673
Highway at fence S. -----	39 53 46.0	92 26 55.9	3,950
T. 59 N., R. 14 W., cor. secs. 22, 23, 26, and 27, highway at fence N. -----	39 53 47.6	92 26 22.1	2,635

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 59 N., R. 14 W., in SW 1/4 sec. 23, 95 ft. S. and 22 ft. W. from SW. corner of Mount Tabor Church, 39 ft. N. of highway, in concrete post; standard tablet stamped "T T 25 W 1936" -----	39 53 47.77	92 25 59.41	1,769
Crossroads -----	39 53 20.4	92 25 15.0	4,432
Junction of rd. S. -----	39 53 20.0	92 24 41.0	2,650
T. 59 N., R. 13 and 14 W., approximate cor. secs. 25, 30, 31, and 36, rd. corner from W.-S. -----	39 52 53.4	92 24 08.0	3,721
Rd. at fence W., 112 ft. N. of rd. at fence E. -- Tps. 56 and 59 N., Rs. 13 and 14 W., cor. of, 25 ft. N. and 21 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 26 W 1936" -----	39 52 28.2	92 24 08.5	2,548
T-rd. N. -----	39 52 01.41	92 24 08.90	2,716
T-rd. W. -----	39 52 13.5	92 23 35.3	2,888
T-rd. E. -----	39 52 11.8	92 22 27.2	5,217
T. 59 N., R. 13 W., S. cor. secs. 32 and 33, rd. at fence N. -----	39 51 58.9	92 22 27.7	1,302
T. 59 N., R. 13 W., S. quarter cor. sec. 33, 25 ft. N. and 27 ft. E. from T-rd. N., 25 ft. N. and 14 ft. W. from T-rd. S.; iron post stamped "T T 27 W 1936 1905 836 Adj" -----	39 51 58.4	92 21 55.7	2,495
T. 58 N., R. 13 W., N. quarter cor. sec. 3, T-rd. S. -----	39 51 58.18	92 21 19.96	2,787
T-rd. E. -----	39 51 56.9	92 20 11.6	5,334
Rd. at fences N. and S. -----	39 52 23.4	92 19 55.2	2,969
T. 59 N., R. 13 W., N. sixteenth cor. sec. 35, 26 ft. W. of T-rd. E., in concrete post; standard tablet stamped "T T 28 W 1936" -----	39 52 23.3	92 19 38.2	1,323
T-rd. S. -----	39 52 34.71	92 19 04.28	2,888
Rd. at fence N. -----	39 53 14.5	92 19 03.1	4,029
T-rd. E. -----	39 53 15.0	92 18 46.7	1,284
T-rd. W. -----	39 53 40.6	92 18 11.5	3,770
T. 59 N., R. 12 W., W. quarter cor. sec. 30, 13 ft. S. and 10 ft. W. from rd. corner from N.-E., in concrete post; standard tablet stamped "T T 29 W 1936" -----	39 53 39.5	92 17 20.9	3,947
T-rd. N. -----	39 53 15.27	92 17 21.59	2,455
T. 59 N., R. 12 W., cor. secs. 29, 30, 31, and 32, crossroads -----	39 52 49.0	92 16 59.9	2,658
Salt River, center of bridge over -----	39 52 48.6	92 16 25.9	2,651
T. 59 N., R. 12 W., cor. secs. 28, 29, 32, and 33, rd. at fence S. -----	39 52 49.4	92 15 42.5	3,386
Prim Trav Sta No 14 1905 835 Adj (In Shelbyville quadrangle; see line 1.) -----	39 52 49.8	92 15 17.2	1,969
	39 52 51.57	92 14 08.71	5,340

9. FROM La PLATA QUADRANGLE AT SEC. 17, T. 60 N., R. 12 W., EAST INTO SHELBYVILLE QUADRANGLE AT SEC. 21, T. 60 N., R. 12 W. (by C. D. Craig in 1937)

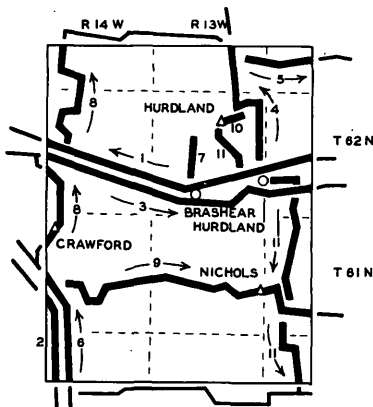
(Continued from La Plata quadrangle; see line 11.)

T. 60 N., R. 12 W., quarter cor. between secs. 17 and 20, stone, 6 ft. E. of crossroads -----	39 59 47.5	92 15 40.3	(5,282)
Prim Trav Sta No 3 1905 (In Shelbyville quadrangle; see line 1.) -----	39 59 48.44	92 14 48.97	3,993

Magnetic declination 6° 11' E.

La PLATA QUADRANGLE
(Latitude 40°00'-40°15'; longitude 92°15'-92°30')

Adair, Knox, and Macon Counties



1. FROM EDINA QUADRANGLE WEST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO KIRKSVILLE QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Edina quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 62 N., R. 13 W., quarter cor. between secs. 24 and 25 -----	40 09 14.1	92 17 54.4	(33,910)
Hurdland, R.R. at sta. -----	40 09 05.7	92 18 08.7	1,392
Crossing of Atchison, Topeka & Santa Fe Ry. -----	40 08 46.1	92 20 04.7	9,219
Brashear, R.R. at sta. -----	40 08 44.3	92 22 41.5	12,170
T. 62 N., R. 14 W., quarter cor. between secs. 24 and 25 -----	40 09 11.4	92 24 42.7	9,825

(Continued in Kirksville quadrangle; see line 1.)

2. FROM KIRKSVILLE QUADRANGLE SOUTH ALONG WABASH RAILWAY INTO ATLANTA QUADRANGLE (by George T. Hawkins in 1901)
(Continued from Kirksville quadrangle; see line 2.)

Fence corner, 150 ft. N. of S. cor. secs. 31 and 32, T. 61 N., R. 14 W. -----*	40 02 13.4	92 29 46.6	(23,692)
La Plata, R.R. at sta. (sta. has been moved 500 ft. S. of this position) -----*	40 01 26.2	92 29 23.5	5,102

(Continued in Atlanta quadrangle; see line 1.)

3. FROM KIRKSVILLE QUADRANGLE EAST ALONG STATE HIGHWAY 6 INTO EDINA QUADRANGLE (by J. P. Anderson in 1934)
(Continued from Kirksville quadrangle; see line 5.)

Junction of rd. N. -----	40 10 05.4	92 29 15.8	(4,005)
Kirksville, 1 mi. S., thence 5 mi. E. from, 17 ft. N. and 180 ft. W. from fence corner at cor. secs. 16, 17, 20, and 21, T. 62 N., R. 14 W., 70 ft. N. and 180 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1422 C W A 1934" -----	40 10 05.66	92 28 43.85	2,479
Junction of rd. S. -----	40 09 52.6	92 27 34.9	5,517
Junction of rd. N. -----	40 09 52.5	92 27 17.4	1,355
Junction of rd. S. -----	40 09 47.5	92 26 25.8	4,039
Brashear, 2.5 mi. NW. of, 30 ft. N. and 15 ft. W. from junction of rd. N., 50 ft. S. of Quincy, Omaha & Kansas City R.R., in concrete post; standard tablet stamped "1423 C W A 1934" -----	40 09 36.26	92 25 22.43	5,054
T. 62 N., R. 14 W., quarter cor. between secs. 24 and 25, junction of County Route V -----	40 09 11.4	92 24 42.7	3,986
Junction of rd. S. -----	40 08 49.5	92 23 51.0	4,564
Salt River, center of bridge over -----	40 08 42.6	92 23 31.9	1,643
Brashear, 100 ft. S. of Quincy, Omaha & Kansas City R.R. sta., 35 ft. N. of highway, in concrete post; standard tablet stamped "1424 C W A 1934" -----	40 08 43.52	92 22 41.41	3,920
Crossroad -----	40 08 45.6	92 22 02.2	3,054
Highway at Adair-Knox county line -----	40 08 32.0	92 20 44.4	6,195

*Results not of third-order accuracy.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Junction of rd. W. -----	40 08 20.4	92 20 27.8	1,749
T. 62 N., R. 13 W., cor. secs. 26, 27, 34, and 35, junction of rd. S. -----	40 08 20.7	92 19 36.3	4,000
U.S.C. & G.S. standard disk stamped "C 16 1933"-----	40 09 05.73	92 18 07.59	6,263
Junction of rd. N. -----	40 08 47.6	92 17 54.5	2,095
Junction of rd. S. -----	40 08 47.6	92 17 20.4	2,640
Junction of rd. S. -----	40 08 48.0	92 16 26.2	4,210
Crossroad -----	40 08 49.4	92 15 36.2	3,900
Hurdland, 2.6 mi. E. of, 100 ft. E. of highway at rd. S., 30 ft. N. of rd. E., in concrete post; standard tablet stamped "1425 C W A 1934" -----	40 08 55.02	92 15 00.04	2,863

(Continued in Edina quadrangle; see line 4.)

4. FROM HURDLAND NORTH INTO DOWNING QUADRANGLE AT SEC. 23, T. 63 N.,
R. 13 W. (by C. L. Overstreet in 1934)

C 16 1933 (previously described) -----	40 09 05.73	92 18 07.59	.....
Center of culvert -----	40 09 32.4	92 17 54.7	2,878
Center of culvert -----	40 09 51.5	92 17 37.5	2,352
T-rd. S. -----	40 10 06.1	92 17 36.8	1,481
Atchison, Topeka & Santa Fe Ry. at rd. crossing -	40 10 21.0	92 17 55.3	2,085
T-rd. W. -----	40 10 58.4	92 17 55.4	3,780
T-rd. S. -----	40 12 03.9	92 17 53.9	6,639
Hurdland, about 3 mi. N. of, in NW 1/4 sec. 12, T. 62 N., R. 13 W., 75 ft. NW. of dwelling of Homer Benstine, 20 ft. S. of rd., in concrete post; standard tablet -----	40 11 50.47	92 18 18.89	2,369
Crossroads near quarter cor. between secs. 2 and 11, T. 62 N., R. 13 W. -----	40 11 50.2	92 19 03.9	3,500
Center of culvert -----	40 12 24.0	92 19 04.0	3,420
Center of culvert -----	40 12 42.5	92 19 04.2	1,879
T-rd. S. (position doubtful) -----	40 13 04.9	92 19 05.6	2,274
T-rd. E. (position doubtful) -----	40 13 05.1	92 19 46.4	3,160
T. 63 N., R. 13 W., in N 1/2 sec. 26, 6 mi. N. and 1 mi. W. from Hurdland, 60 ft. S. and 33 ft. E. from State Highway 11 at rd. S., in concrete post; standard tablet stamped "T T 133 C 1936"-----	40 14 28.54	92 19 45.67	8,448

(Continued in Downing quadrangle; see line 3.)

5. FROM SEC. 26, T. 63 N., R. 13 W., EAST ALONG STATE HIGHWAY 11 INTO EDINA
QUADRANGLE (by Roy E. Keim in 1934)

T T 133 C 1936 (previously described) -----	40 14 28.54	92 19 45.67	.....
Junction of lane S. -----	40 14 29.0	92 19 12.3	2,587
Crossroad -----	40 14 29.0	92 18 39.7	2,530
Junction of rd. N. -----	40 14 29.4	92 17 31.3	5,308
Junction of rd. S. -----	40 14 29.9	92 16 58.0	2,582
Highway at fence S. -----	40 14 30.4	92 16 24.0	2,640
T. 63 N., R. 12 W., N. sixteenth cor. sec. 29, 3.5 mi. W. of Baring, 36 ft. N. and 25 ft. E. from junction of rd. N., in concrete post; standard tablet -----	40 14 31.29	92 15 49.47	2,677
Junction of rd. S. -----	40 14 31.4	92 15 15.6	2,624

(Continued in Edina quadrangle; see line 2.)

6. FROM ATLANTA QUADRANGLE NORTH ALONG U.S. HIGHWAY 63 INTO KIRKSVILLE
QUADRANGLE (by S. T. Tudor in 1934)

(Continued from Atlanta quadrangle; see line 4.)

Highway at fences E. and W. -----	40 00 22.6	92 29 03.4	(2,710)
Crossroad -----	40 00 49.1	92 29 18.6	2,935
La Plata, municipal water tower at -----	40 01 26.56	92 29 21.15	3,797
Highway at fences E. and W. -----	40 02 07.8	92 29 16.8	4,186
La Plata, 1.1 mi. N. of, in SW 1/4 sec. 32, T. 61 N., R. 14 W., 35 ft. W. of highway, in concrete post; standard tablet stamped "790 C W A 1934"-----	40 02 26.22	92 29 29.63	2,112
Crossroad on line between secs. 29 and 32, T. 61 N., R. 14 W. -----	40 03 05.4	92 29 42.5	4,089
Highway at fences E. and W. -----	40 03 31.9	92 29 53.5	2,810

(Continued in Kirksville quadrangle; see line 6.)

7. FROM BRASHEAR NORTH TO SEC. 17, T. 62 N., R. 13 W. (by S. T. Tudor
in 1934)

1424 C W A 1934 (previously described) -----	40 08 43.52	92 22 41.41	.....
Brashear, Quincy, Omaha & Kansas City R.R. at sta. -----	40 06 44.3	92 22 41.5	75
Airway beacon 13 -----	40 10 10.00	92 23 00.04	8,794

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

8. FROM KIRKSVILLE QUADRANGLE AT SEC. 6, T. 61 N., R. 14 W., NORTH INTO
DOWNING QUADRANGLE AT SEC. 20, T. 63 N., R. 14 W. (by C. D. Craig
in 1936)

(Continued from Kirksville quadrangle; see line 11.)

T-rd. N. -----	40 07 01.1	92 29 47.1	(3,553)
Crawford triangulation sta.; U.S.C. & G.S. standard disk stamped "Crawford 1934" -----	40 07 01.88	92 28 36.58	5,479
T-rd. N. (previously described) -----	40 07 01.1	92 29 47.1	.....
Rd. at W. end of jog, 15 ft. N. of fence W. at S. cor. secs. 31 and 32, T. 62 N., R. 14 W. -----	40 07 28.4	92 29 49.4	2,764
Rd. at fence W. -----	40 07 54.4	92 29 49.6	2,630
Crossroads -----	40 06 33.7	92 29 49.7	3,975
T. 62 N., R. 14 W., cor. secs. 19, 20, 29, and 30, 24 ft. N. of T-rd. S., in concrete post; standard tablet stamped "T T 128 C 1936" -----	40 09 13.15	92 29 50.26	3,996

(For balance in Kirksville quadrangle, see line 11.)

T. 62 N., R. 14 W., cor. secs. 17, 18, 19, and 20, State Highway 6 at fence N. -----	40 10 05.2	92 29 50.6	(2,953)
1422 C W A 1934 (previously described) -----	40 10 05.66	92 28 43.85	5,179
U.S.C. & G.S. standard disk stamped "H 16 1933" -----	40 10 18.67	92 29 15.39	2,781
T-rd. S. -----	40 10 56.0	92 29 16.0	3,981
T-rd. W. -----	40 11 10.9	92 29 33.0	1,856
State Highway 11 at rd. S. -----	40 11 49.9	92 29 33.2	3,950
T. 62 N., R. 14 W., cor. secs. 4, 5, 8, and 9, 6 mi. E. of Kirksville, along State Highway 11, 35 ft. S. and 2 ft. W. from intersection of E.-W. rd. and tangent of highway N., in con- crete post; standard tablet stamped "T T 129 C 1936" -----	40 11 49.41	92 28 42.08	3,968
State Highway 11 at fences E. and W. -----	40 12 15.9	92 28 41.9	2,682
Tps. 62 and 63 N., R. 14 W., approximate cor. secs. 4, 5, 32, and 33, State Highway 11 at rd. E. -----	40 12 52.4	92 28 41.9	3,698
Rd. corner from S.-W. -----	40 13 18.7	92 28 41.9	2,655
T. 63 N., R. 14 W., center sec. 32, 1.7 mi. N. and 5.5 mi. E. from Kirksville, 20 ft. S. and 7 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 130 C 1936" -----	40 13 17.99	92 29 16.21	2,663
Rd. at fence W. -----	40 13 44.5	92 29 16.2	2,679
Crossroads -----	40 14 24.3	92 29 16.4	4,035
Rd. at fences E. and W. -----	40 14 49.9	92 29 16.9	2,590

(Continued in Downing quadrangle; see line 7.)

9. FROM KIRKSVILLE QUADRANGLE AT SEC. 18, T. 61 N., R. 14 W., EAST INTO
EDINA QUADRANGLE AT SEC. 28, T. 61 N., R. 12 W. (by C. D. Craig in 1936)

791 C W A 1934 (In Kirksville quadrangle; see line 6.) -----	40 04 51.21	92 30 43.89	.....
T. 61 N., R. 14 W., cor. secs. 17, 18, 19, and 20, crossroads -----	40 04 50.4	92 29 47.3	4,399
Rd. at fences N. and S. -----	40 04 50.2	92 29 13.6	2,617
T. 61 N., R. 14 W., cor. secs. 16, 17, 20, and 21, crossroads -----	40 04 50.1	92 28 40.0	2,613
Rd. at hedge fence E. and fence W. -----	40 04 23.7	92 28 39.7	2,675
T. 61 N., R. 14 W., cor. secs. 20, 21, 28, and 29, crossroads -----	40 03 57.5	92 28 39.6	2,647
Rd. at fences N. and S. -----	40 03 57.7	92 28 05.4	2,657
T. 61 N., R. 14 W., cor. secs. 21, 22, 27, and 28, T-rd. W. -----	40 03 57.9	92 27 31.1	2,665
U.S.C. & G.S. standard disk stamped "F 121 1935" Atchison, Topeka & Santa Fe Ry. double track at rd. crossing, 125 ft. N. of telegraph lines at new location of R.R. -----	40 04 00.46	92 27 24.26	593
U.S.C. & G.S. standard disk stamped "E 121 1935" T-rd. E. -----	40 04 27.3	92 26 24.0	5,416
T-rd. S. -----	40 04 50.21	92 25 55.83	3,187
T. 61 N., R. 14 W., E. cor. secs. 13 and 24, rd. corner from W.-N., 70 ft. S. of T-rd. E. at W. cor. secs. 18 and 19, T. 61 N., R. 13 W. ---	40 04 50.7	92 25 16.0	3,095
T-rd. S. -----	40 04 50.3	92 24 42.2	2,631
T. 61 N., R. 13 W., cor. secs. 17, 18, 19, and 20, crossroads -----	40 04 49.8	92 24 07.2	2,716
T-rd. S. -----	40 04 50.4	92 23 49.8	1,357
T. 61 N., R. 13 W., cor. secs. 17, 18, 19, and 20, crossroads -----	40 04 50.4	92 22 59.2	3,929
T-rd. S. -----	40 04 50.5	92 22 07.9	3,995
T. 61 N., R. 13 W., E. sixteenth cor. sec. 20, 23 ft. S. and 55 ft. W. from crossroads, in concrete post; standard tablet stamped "15 B 1936" -----	40 04 23.96	92 22 08.22	2,688
T-rd. S. -----	40 04 24.5	92 21 33.8	2,680
T. 61 N., R. 13 W., quarter cor. between secs. 21 and 22, rd. at fence S. on Adair-Knox county line -----	40 04 24.7	92 20 43.4	3,910
Rd. fork NW. -----	40 04 15.2	92 19 35.0	5,409

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 61 N., R. 13 W., cor. secs. 22, 23, 26, and 27, rd. corner from N.-E. -----	40 03 59.0	92 19 34.6	1,637
T-rd. S. -----	40 03 59.4	92 19 00.8	2,640
T. 61 N., R. 13 W., cor. secs. 23, 24, 25, and 26, rd. at fences N. and S. -----	40 03 59.7	92 18 26.7	2,648
U.S.C. & G.S. standard disk stamped "Nichols Az1 1934" -----	40 03 59.75	92 18 08.32	1,432
Nichols triangulation sta.; U.S.C. & G.S. standard disk stamped "Nichols 1934" -----	40 04 26.10	92 17 52.23	2,945
T. 61 N., R. 12 and 13 W., cor. secs. 19, 24, 25, and 30, rd. at fences N. and S. -----	40 04 00.1	92 17 18.7	3,705
Rd. at hedge fence N. -----	40 04 00.2	92 16 43.9	2,705
T. 61 N., R. 12 W., cor. secs. 19, 20, 29, and 30, crossroads -----	40 04 00.2	92 16 09.8	2,647
Rd. at fences E. and W. -----	40 03 34.0	92 16 09.8	2,653
T. 61 N., R. 12 W., cor. secs. 29, 30, 31, and 32, crossroads -----	40 03 07.6	92 16 09.7	2,662
T. 61 N., R. 12 W., quarter cor. between secs. 29 and 32, 16 ft. S. and 55 ft. E. from crossroads, in concrete post; standard tablet stamped "14 B 1936" -----	40 03 07.56	92 15 34.99	2,702

(Continued in Edina quadrangle; see line 8.)

10. FROM SEC. 11, T. 62 N., R. 13 W., NORTH AND EAST TO SEC. 12, T. 62 N., R. 13 W. (by C. D. Craig in 1937)

Hurdland triangulation sta.; U.S.C. & G.S. standard disk stamped "Hurdland 1934" -----	40 11 22.87	92 19 15.23	.....
Crossroads -----	40 11 50.2	92 19 03.9	2,906
Standard tablet (previously described) -----	40 11 50.47	92 18 18.89	3,495

11. FROM SEC. 11, T. 62 N., R. 13 W., SOUTHEAST INTO ATLANTA QUADRANGLE AT SEC. 17, T. 60 N., R. 12 W. (by C. D. Craig in 1937)

Hurdland triangulation sta. (previously described) -----	40 11 22.87	92 19 15.23	.....
T-rd. E. -----	40 10 57.8	92 19 03.4	2,697
Rd. corner from N.-E. -----	40 10 05.6	92 19 03.0	5,295
Atchison, Topeka & Santa Fe Ry. double track at rd. crossing -----	40 10 05.6	92 18 29.7	2,591
T. 62 N., R. 13 W., cor. secs. 23, 24, 25, and 26, rd. at fences E. and W. -----	40 09 13.5	92 18 28.7	5,281
C 16 1933 (previously described) -----	40 09 05.73	92 18 07.59	1,816
State Highway 6 at fence S. -----	40 08 47.7	92 16 44.2	6,727
T-rd. E. -----	40 08 09.1	92 15 35.4	6,617
Tps. 61 and 62 N., R. 12 W., near quarter cor. between secs. 5 and 32, 1.5 mi. S. and 2 mi. E. from Hurdland, 110 ft. E. of dwelling, 25 ft. W. of rd., in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 3 C 1937" -----	40 07 33.15	92 15 35.01	3,641
Crossroads -----	40 07 03.7	92 15 35.7	2,978
T. 61 N., R. 12 W., center sec. 8, crossroads -----	40 06 11.2	92 15 36.0	5,310
T. 61 N., R. 12 W., quarter cor. between secs. 8 and 17, rd. corner from N.-W. -----	40 05 45.0	92 15 36.1	2,650
T-rd. W. -----	40 05 18.8	92 16 10.2	3,747
Hurdland, 4.5 mi. S. and 1.5 mi. E. from, cor. secs. 17, 18, 19, and 20, T. 61 N., R. 12 W., 69 ft. N. and 522 ft. E. from crossroads, 95 ft. SE. of dwelling; iron post stamped "855 A" -----	40 04 53.09	92 16 03.38	2,657
14 B 1936 (previously described) -----	40 03 07.56	92 15 34.99	10,781
Crossroads (previously described) -----	40 03 07.6	92 16 09.7	.....
T-rd. S. -----	40 02 41.4	92 16 26.8	2,965
T. 61 N., R. 12 W., E. sixteenth cor. on S. line sec. 31, T-rd. N. -----	40 02 15.4	92 16 26.7	2,638
Locust Hill, on line between secs. 6 and 7, T. 60 N., R. 12 W., 25 ft. S. of T-rd. N., 312 ft. E. of Dixon School, in concrete post; U.S.C. & G.S. and State Survey standard tablet stamped "T T 4 C 1937" -----	40 01 31.46	92 16 29.39	4,447
T-rd. S. -----	40 01 31.8	92 15 36.1	3,990
Crossroads -----	40 00 39.6	92 15 39.2	5,280

(Continued in Atlanta quadrangle; see line 9.)

Magnetic declination 6° 11' E.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 65 N., R. 14 W., cor. secs. 20, 21, 28, and 29, stone in rd. at hedge W. and wire fence E.-	40 25 05.4	92 28 52.7	2,638
T. 65 N., R. 14 W., quarter cor. between secs. 20 and 21, T-rd. S. -----	40 25 31.7	92 28 53.6	2,661
T. 65 N., R. 14 W., quarter cor. between secs. 16 and 21, T-rd. N. -----	40 25 58.7	92 28 20.2	3,765
T-rd. W., 90 ft. S. of center of bridge over Fabius River -----	40 27 04.1	92 28 21.2	6,621
T. 65 N., R. 14 W., center sec. 9, rd. forks -----	40 27 17.3	92 28 22.6	1,345
Cupola of Germania Methodist Episcopal Church ---	40 27 31.1	92 28 41.8	2,041
T. 65 N., R. 14 W., cor. secs. 4, 5, 8, and 9, stone in rd. at fences E. and W. -----	40 27 42.8	92 28 58.3	1,740
T-rd. S., 1,000 ft. W. of quarter cor. between secs. 32 and 33, T. 66 N., R. 14 W. -----	40 29 00.2	92 29 09.7	7,894
T-rd. S., 600 ft. N. of schoolhouse -----	40 29 30.8	92 29 50.0	4,393

(Continued in Queen City quadrangle; see line 2.)

3. FROM La PLATA QUADRANGLE AT SEC. 23, T. 63 N., R. 13 W., NORTH TO SEC. 11, T. 65 N., R. 13 W. (by C. L. Overstreet in 1934)

(Continued from La Plata quadrangle; see line 4.)

State Highway 11 from S.-W. at rd. N. -----	40 15 08.2	92 19 46.0	(4,010)
T. 63 N., R. 13 W., cor. secs. 14, 15, 22, and 23, T-rd. E. -----	40 15 34.4	92 19 46.0	2,660
T. 63 N., R. 13 W., cor. secs. 10, 11, 14, and 15, crossroads -----	40 16 26.5	92 19 46.4	5,270
S. end of bridge -----	40 17 11.6	92 19 46.5	4,570
Crossroads -----	40 17 44.6	92 19 46.6	3,337
Tps. 63 and 64 N., R. 13 W., approximate cor. secs. 2, 3, 34, and 35, T-rd. S. on Knox-Scotland county line -----	40 18 10.2	92 19 46.6	2,590
T. 64 N., R. 13 W., in SW 1/4 sec. 35, 20 ft. N. and 30 ft. E. from T-rd. N., in iron post; standard tablet -----	40 16 10.18	92 19 33.51	1,017
Crossroads -----	40 16 36.6	92 19 34.3	2,680
T-rd. N. -----	40 16 37.0	92 19 01.1	2,575
T-rd. E. -----	40 19 29.4	92 18 32.0	5,764
Rd. forks -----	40 20 06.2	92 18 27.9	3,731
Rd. forks -----	40 20 33.9	92 18 26.0	2,610
Bible Grove, at W. limits of, 28 ft. S. and 24 ft. W. from County Route T at rd. S., on property of Virgil Blaine, in concrete post; standard tablet stamped "T T 10 G 1935" -----	40 21 06.19	92 18 28.60	3,265
County Route T at rd. N. -----	40 21 10.4	92 18 10.8	1,440
T-rd. S. -----	40 21 40.0	92 18 10.6	3,000
T-rd. N. -----	40 21 40.5	92 18 43.4	2,540
Crossroads -----	40 22 46.4	92 18 46.2	6,666
T-rd. S. -----	40 23 49.6	92 18 44.7	6,405
T. 65 N., R. 13 W., cor. secs. 25, 26, 35, and 36, 25 ft. S. and 5 ft. W. from T-rd. N., in concrete post; U.S.C. & G.S. and State Survey standard tablet -----	40 24 15.32	92 18 45.44	2,605
T. 65 N., R. 13 W., cor. secs. 23, 24, 25, and 26, T-rd. N. -----	40 25 07.9	92 18 48.2	5,326
T-rd. N. -----	40 25 15.0	92 19 04.0	1,417
T. 65 N., R. 13 W., cor. secs. 14, 15, 22, and 23, crossroads -----	40 25 59.9	92 19 57.0	6,123
North Fork of Middle Fabius River, center of bridge over -----	40 27 09.3	92 19 41.4	7,119
T-rd. N. -----	40 27 17.8	92 19 07.3	2,770
Memphis, 7.5 mi. W. of, 40 ft. S. and 25 ft. E. from junction of rd. N., in concrete post; U.S.C. & G.S. and State Survey standard tablet-----	40 27 37.55	92 19 07.68	1,997

4. FROM PULASKI QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 4 INTO MEMPHIS QUADRANGLE (by S. T. Tudor in 1935)

(Continued from Pulaski quadrangle; see line 2.)

Downing, 1.1 mi. NW. of, 25 ft. S. and 35 ft. W. from highway at fences N. and S., in concrete post; standard tablet stamped "1502 C W A 1935" -----	40 29 55.34	92 22 56.08	(3,545)
Downing, ball on spire of Christian Church -----	40 29 25.0	92 22 11.1	4,636
Downing, intersection of Fifteenth and Prime Streets -----	40 29 16.4	92 22 07.6	905
Junction of rd. S. -----	40 28 51.1	92 21 36.9	3,398
Downing, 1.4 mi. SE. of, 35 ft. S. and 30 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1503 C W A 1935" -----	40 26 36.78	92 21 01.88	3,207
Junction of rd. W. -----	40 28 23.6	92 20 29.2	2,854
Highway at fence S. -----	40 28 09.1	92 19 57.5	2,860
Crossroad -----	40 27 49.9	92 19 23.0	3,296
U.S.C. & G.S. and State Survey standard tablet (previously described) -----	40 27 37.55	92 19 07.68	1,721
Highway at fence N. -----	40 27 13.5	92 18 43.8	3,055

Station	Latitude	Longitude	Distance
Highway at fence S. -----	40 27 05.7	92 18 13.5	Feet 2,475
Junction of rd. S. on line between secs. 7 and 12, T. 65 N., Rs. 12 and 13 W. -----	40 27 02.4	92 17 37.9	2,770
Highway at fences N. and S. -----	40 26 53.4	92 17 00.5	3,030
T. 65 N., R. 12 W., cor. secs. 7, 8, 17, and 18, junction of rd. S. -----	40 26 53.9	92 16 26.3	2,639
Memphis, 6.2 mi. W. of, W. sixteenth cor. be- tween secs. 8 and 17, T. 65 N., R. 12 W., 35 ft. S. of highway, 3 ft. N. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "1504 C W A 1935" -----	40 26 53.82	92 16 08.75	1,360
Junction of rd. S. -----	40 26 54.4	92 15 51.2	1,361
Crossroad -----	40 27 01.2	92 15 16.2	2,794

(Continued in Memphis quadrangle; see line 4.)

5. FROM BIBLE GROVE EAST ALONG COUNTY ROUTE T INTO MEMPHIS QUADRANGLE
(by H. W. Gross in 1935)

T T 10 G 1935 (previously described) -----	40 21 06.19	92 18 28.60	.....
Junction of rd. N. -----	40 21 13.9	92 17 53.3	2,844
T. 64 N., R. 12 W., W. quarter cor. sec. 18, highway produced at fence N., 50 ft. N. of junction of rd. S. -----	40 21 14.9	92 17 35.6	1,376
Junction of rd. S. -----	40 21 15.3	92 16 43.1	4,064
T. 64 N., R. 12 W., center sec. 17, rd. at fences E. and W., 12 ft. N. of junction of rd. N. -----	40 21 15.8	92 15 51.7	3,982
Bible Grove, 3 mi. E. of, 58 ft. N. and 2 ft. E. from highway at fences N. and S., in concrete post; standard tablet stamped "T T 11 G 1935" -----	40 21 22.70	92 15 34.50	1,502

(Continued in Memphis quadrangle; see line 7.)

6. FROM SEC. 17, T. 65 N., R. 12 W., NORTH INTO PULASKI QUADRANGLE AT
SEC. 30, T. 66 N., R. 12 W. (by H. W. Gross in 1935)

1504 C W A 1935 (previously described) -----	40 26 53.82	92 16 08.75	.....
T-rd. E. -----	40 27 32.9	92 16 44.3	4,811
T-rd. N. -----	40 28 12.6	92 16 27.9	4,249
U.S.C. & G.S. standard disk stamped "H 86 1935" - T. 66 N., R. 12 W., S. cor. secs. 31 and 32, rd. at fences E. and W., 162 ft. E. of rd. S. produced at fences E. and W. at N. cor. secs. 5 and 6, T. 65 N., R. 12 W. -----	40 28 26.07	92 16 25.22	1,542
T-rd. E. at Friendship School -----	40 28 39.5	92 16 26.4	1,162
T-rd. N. -----	40 29 19.1	92 16 26.4	4,005
Crawford, 0.8 mi. N. and 1 mi. E. from, on line between secs. 32 and 33, T. 66 N., R. 12 W., 33 ft. N. and 21 ft. W. from T-rd. N., on property of L. C. Lancaster; iron post stamped "790 A" -----	40 29 10.2	92 15 51.9	2,811
T-rd. E. (previously described) -----	40 29 10.43	92 15 18.24	2,604
T-rd. W. -----	40 29 19.1	92 16 26.4	.....
	40 29 43.5	92 16 26.2	2,475

(Continued in Pulaski quadrangle; see line 3.)

7. FROM La PLATA QUADRANGLE AT SEC. 20, T. 63 N., R. 14 W., EAST TO
SEC. 20, T. 63 N., R. 13 W., THENCE EAST ALONG STATE HIGHWAY 11 INTO
La PLATA QUADRANGLE (by C. D. Craig in 1936)
(Continued from La Plata quadrangle; see line 8.)

T-rd. S. -----	40 15 29.1	92 29 17.2	(3,965)
Prim Trav Sta No 1 1910 Mo (previously de- scribed) -----	40 15 28.99	92 29 51.36	2,645
T. 63 N., R. 14 W., cor. secs. 16, 17, 20, and 21, rd. at fences E. and W. (? N. and S.) -----	40 15 29.5	92 28 43.1	5,294
Rd. at fences N. and S. -----	40 15 30.0	92 28 09.3	2,622
T. 63 N., R. 14 W., cor. secs. 15, 16, 21, and 22, crossroads -----	40 15 30.6	92 27 35.8	2,599
Rd. at fence S. -----	40 15 30.8	92 27 00.6	2,730
T. 63 N., R. 14 W., cor. secs. 14, 15, 22, and 23, 25 ft. N. and 100 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 131 C 1936" -----	40 15 31.35	92 26 27.19	2,593
T-rd. S. -----	40 15 31.8	92 25 34.2	4,109
Rd. at fences E. and W. -----	40 15 05.6	92 25 34.1	2,647
T-rd. S. (previously described) -----	40 15 31.8	92 25 34.2	.....
Rd. at fences N. and S. -----	40 15 32.5	92 24 43.1	3,960
T. 63 N., R. 14 W., E. cor. secs. 13 and 24, T-rd. W., 80 ft. S. of T-rd. E. -----	40 15 33.2	92 24 09.5	2,610
Rd. at fences N. and S. -----	40 15 33.9	92 23 44.3	1,953
T. 63 N., R. 13 W., cor. secs. 17, 18, 19, and 20, T-rd. W. -----	40 15 33.6	92 23 10.0	2,660

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Adair, 0.2 mi. N. and 0.3 mi. W. from, in NW 1/4 sec. 20, T. 63 N., R. 13 W., 12 ft. N. and 5 ft. E. from rd. corner from W.-S., in concrete post; standard tablet stamped "T T 132 C 1936" -----	40 15 20.57	92 22 53.14	1,853
Crossroad -----	40 15 07.4	92 22 01.7	4,204
Highway at fences N. and S. -----	40 15 07.4	92 21 27.9	2,620
Crossroad on Adair-Knox county -----	40 15 07.4	92 20 54.3	2,610
Highway at fences N. and S. -----	40 15 07.8	92 20 20.2	2,639
Highway from W.-S. at rd. N. -----	40 15 08.2	92 19 46.1	2,650
T T 133 C 1936 (in La Plata quadrangle; see line 4.) -----	40 14 28.54	92 19 45.67	4,011

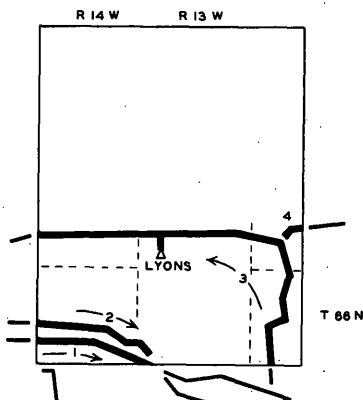
8. FROM QUEEN CITY QUADRANGLE AT SEC. 31, T. 65 N., R. 14 W., EAST TO
BIBLE GROVE (by C. D. Craig in 1936)
(Continued from Queen City quadrangle; see line 5.)

Rd. at fence N. -----	40 23 33.1	92 29 24.0	(3,987)
Rd. at fences N. and S. -----	40 23 35.6	92 28 50.1	2,625
Rd. at fences N. and S. -----	40 23 34.1	92 28 15.7	2,662
T-rd. W. -----	40 23 34.6	92 27 40.9	2,694
T. 64 N., R. 14 W., N. cor. secs. 3 and 4, 165 ft. N. and 10 ft. W. from junction of abandoned rd. E., 2 ft. S. and 25 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 134 C 1936" -----	40 23 23.09	92 27 32.33	1,167
T-rd. N. -----	40 22 53.9	92 27 38.7	2,957
T-rd. S. at fence N. -----	40 22 54.6	92 27 04.6	2,961
T. 64 N., R. 14 W., quarter cor. between secs. 2 and 3, crossroads -----	40 22 55.2	92 26 30.9	2,609
Rd. fork SE. -----	40 22 42.8	92 25 49.1	3,473
T. 64 N., R. 14 W., center of NW 1/4 sec. 12, 14 ft. S. and 17 ft. E. from rd. fork NW., in concrete post; standard tablet stamped "T T 135 C 1936" -----	40 22 16.95	92 25 05.15	4,292
Rd. at fence W. -----	40 21 51.1	92 25 05.1	2,619
T-rd. N. -----	40 21 24.8	92 25 04.9	2,657
Rd. at fences N. and S. -----	40 21 25.5	92 24 30.8	2,640
Rd. at fences N. and S. on line between secs. 13 and 18, T. 64 N., R. 13 and 14 W. -----	40 21 27.3	92 24 13.5	1,353
County Route A at rd. W. -----	40 21 27.5	92 23 32.2	3,197
T. 64 N., R. 13 W., E. sixteenth cor. between secs. 7 and 18, 10 ft. N. and 30 ft. W. from County Route A at rd. E., in concrete post; standard tablet stamped "T T 136 C 1936" -----	40 21 40.93	92 23 32.60	1,361
T-rd. N. -----	40 21 40.0	92 22 41.3	3,975
Rd. at fences N. and S. -----	40 21 39.4	92 22 07.6	2,605
Rd. fork NW. -----	40 21 34.4	92 21 34.6	2,610
Bible Grove, 2.5 mi. W. of, in E 1/2 sec. 16, T. 64 N., R. 13 W., about 0.1 mi. W. of Schuyler-Scotland county line, 50 ft. S. and 15 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 137 C 1936" -----	40 21 10.69	92 21 07.67	3,176
Rd. at fences N. and S. -----	40 21 08.5	92 20 26.8	3,171
T-rd. S. -----	40 20 52.9	92 19 53.2	3,043
T-rd. N. -----	40 21 00.7	92 19 16.7	2,941
T T 10 G 1935 (previously described) -----	40 21 06.19	92 18 28.60	3,762

Magnetic declination 6° 11' E.

PULASKI QUADRANGLE *
(Latitude 40°30'-40°45'; longitude 92°15'-92°30')

Schnyler and Scotland Counties



1. FROM MOULTON QUADRANGLE SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO DOWNING QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Moulton quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
R.R. at line between secs. 25 and 30, T. 66 N., Rs. 13 and 14 W. -----	40 30 13.5	92 24 56.5	(29,640)

(Continued in Downing quadrangle; see line 1.)

2. FROM MOULTON QUADRANGLE SOUTHEAST ALONG STATE HIGHWAY 4 INTO DOWNING QUADRANGLE (by S. T. Tudor in 1935)
(Continued from Moulton quadrangle; see line 6.)

Highway at fence S. -----	40 31 24.2	92 29 35.0	(2,656)
Crossroad -----	40 31 37.6	92 29 00.7	2,972
Lancaster, 2.9 mi. E. of, 45 ft. N. and 132 ft. W. from junction of rd. N., 10 ft. S. and 33 ft. W. from SW. corner of schoolhouse, in concrete post; standard tablet stamped "800 C W A 1935" -----	40 31 40.35	92 28 26.49	2,654
T. 66 N., R. 14 W., quarter cor. between secs. 15 and 16, highway at fences N. and S. -----	40 31 40.3	92 27 49.7	2,839
Highway at fences N. and S. -----	40 31 40.3	92 27 14.5	2,720
T. 66 N., R. 14 W., quarter cor. between secs. 14 and 15, crossroad -----	40 31 40.3	92 26 39.4	2,710
Junction of rd. S. -----	40 31 40.2	92 26 04.7	2,680
Lancaster, 5.8 mi. E. of, 30 ft. S. and 45 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "1501 C W A 1935" -----	40 31 13.66	92 25 30.72	3,756
Crossroad -----	40 30 50.0	92 24 56.1	3,587
Highway at fences N. and S. on line between secs. 19 and 24, T. 66 N., Rs. 13 and 14 W. ---	40 30 47.7	92 24 21.7	2,664
Junction of rd. N., 50 ft. N. of center of SE 1/4 sec. 19, T. 66 N., R. 13 W. -----	40 30 38.8	92 23 38.3	3,477
Crossroad -----	40 30 24.7	92 23 21.1	1,945

(Continued in Downing quadrangle; see line 4.)

3. FROM DOWNING QUADRANGLE AT SEC. 30, T. 66 N., R. 12 W., NORTH TO SEC. 20, T. 67 N., R. 12 W., THENCE WEST NEAR IOWA-MISSOURI STATE LINE INTO MOULTON QUADRANGLE AT SEC. 20, T. 67 N., R. 14 W. (by H. W. Gross in 1935)
(Continued from Downing quadrangle; see line 6.)

T. 66 N., R. 12 W., cor. secs. 19, 20, 29, and 30, stone in rd. at fences E. and W. -----	40 30 23.0	92 16 25.8	(3,390)
T-rd. W. -----	40 30 49.1	92 16 25.5	2,645
T. 66 N., R. 12 W., cor. secs. 17, 18, 19, and 20, 490 ft. N. and 38 ft. W. from rd. at fences E. and W., 29 ft. S. and 44 ft. E. from SE corner of dwelling of O. L. Gorman, in concrete post; standard tablet stamped "T T 13 G 1935" -	40 31 20.03	92 16 25.88	3,132

* The greater part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. S. -----	40 31 41.3	92 16 25.2	2,105
Church spire at Pleasant Hill Cemetery -----	40 32 03.8	92 15 52.3	3,411
T-rd. S. -----	40 32 20.9	92 15 34.9	1,746
Stone at rd. corner from W.-N. -----	40 32 38.7	92 15 34.2	2,411
T. 66 N., R. 12 W., N. sixteenth cor. between secs. 8 and 9, T-rd. W. -----	40 32 47.5	92 15 17.4	1,575
T. 66 N., R. 12 W., cor. secs. 4, 5, 8, and 9, 149 ft. N. and 28 ft. E. from crossroads, 68 ft. N. and 43 ft. W. from NW. corner of farmhouse of O. S. Mustos, in concrete post; standard tablet stamped "T T 14 G 1935" -----	40 33 01.85	92 15 17.04	1,456
T-rd. W. -----	40 33 26.2	92 15 17.2	2,469
T. 66 N., R. 12 W., N. cor. secs. 4 and 5, E.-W. fence at rd. S. produced -----	40 33 51.9	92 15 16.9	2,597
T-rd. E. -----	40 34 08.9	92 15 19.6	1,742
Rd. corner from S.-W. -----	40 34 44.3	92 15 54.0	4,457
T-rd. E. -----	40 35 06.6	92 16 02.2	2,359
T. 67 N., R. 12 W., W. sixteenth cor. between secs. 20 and 29, 24 ft. N. and 21 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 15 G 1935" -----	40 35 36.60	92 16 10.25	3,103
Rd. corner from E.-N. -----	40 35 36.2	92 17 19.4	5,337
T-rd. W., 20 ft. S. of Iowa-Mo. State line -----	40 35 54.4	92 17 54.9	3,295
Iowa-Mo. State-line boundary post, 19 ft. N. and 393 ft. E. from T-rd. N. -----	40 35 53.3	92 18 58.4	4,905
Rd. at hedge fence N. on Iowa-Mo. State line, 180 ft. W. of T-rd. S. -----	40 35 51.1	92 19 55.5	4,407
T-rd. E. -----	40 36 03.3	92 20 28.8	2,816
Rd. at fence S. on Iowa-Mo. State line, 253 ft. E. of rd. at fence N. -----	40 35 50.5	92 20 45.0	1,801
T-rd. S. on Iowa-Mo. State line at Schuyler- Scotland county line, 15 ft. E. of rd. N. -----	40 35 50.1	92 21 02.1	1,321
Downing, 7.5 mi. N. of, about 0.3 mi. W. of N. cor. secs. 21 and 22, T. 67 N., R. 13 W., 33 ft. S. of Iowa-Mo. State line, 13 ft. S. and 24 ft. W. from rd. at hedge fence N., 14 ft. W. of private drive S., in concrete post; standard tablet stamped "T T 16 G 1935" -	40 35 49.63	92 21 22.30	1,561
Center of bridge -----	40 35 47.8	92 22 27.7	5,049
T-rd. E. on Iowa-Mo. State line -----	40 35 47.4	92 22 45.9	1,403
Rd. at fence E. and abandoned rd. W. -----	40 35 35.7	92 22 46.2	1,181
T-rd. E. -----	40 35 22.7	92 22 46.0	1,313
Center of bridge near Brush Creek School - Lyons triangulation sta.; U.S.C. & G.S. standard disk stamped "Lyons 1934" -----	40 34 43.9	92 22 46.8	3,928
Rd. at fence E. and abandoned rd. W. (previously described) -----	40 34 08.17	92 22 44.76	3,623
Stone in rd. at fence S. -----	40 35 35.7	92 22 46.2	.....
Sandstone rock marked "116 M" on Iowa-Mo. State line, 356 ft. E. of rd. N. -----	40 35 36.1	92 23 19.7	2,585
Lancaster, 5.5 mi. N. and 6.5 mi. E. from, about 0.2 mi. E. of N. cor. secs. 19 and 24, T. 67 N., Rs. 13 and 14 W., 18 ft. S. and 128 ft. E. from rd. at hedge fence S., 36 ft. S. of Iowa-Mo. State line, in concrete post; standard tablet stamped "T T 17 G 1935" -----	40 35 46.2	92 23 33.3	1,471
Rd. corner from E.-S. on Iowa-Mo. State line -----	40 35 45.24	92 24 09.49	2,798
NE.-SW. rd. at fences E. and W. on Iowa-Mo. State line -----	40 35 44.4	92 25 12.4	4,853
T-fence S. -----	40 35 43.5	92 26 11.6	4,568
Lancaster, 4.5 mi. N. and 3.5 mi. E. from, 800 ft. N. of quarter cor. between secs. 22 and 27, T. 67 N., R. 14 W., 25 ft. S. and 75 ft. W. from T-rd. S., 3 ft. S. of fence on Iowa-Mo. State line, in concrete post; standard tablet stamped "T T 18 G 1935" -----	40 35 43.1	92 26 35.9	1,876
T. 67 N., R. 14 W., center of SW 1/4 sec. 15, stone at rd. corner from S.-W. -----	40 35 42.91	92 27 11.01	2,712
T-rd. W. produced, 23 ft. N. of bridge -----	40 35 55.9	92 27 40.4	2,625
	40 35 42.1	92 28 51.3	5,644

(Continued in Moulton quadrangle; see line 7.)

4. FROM SEC. 20, T. 67 N., R. 12 W., EAST INTO CANTRIL QUADRANGLE AT
SEC. 21, T. 67 N., R. 12 W. (by H. W. Gross in 1935)

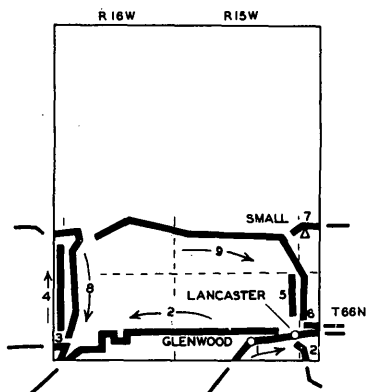
T T 15 G 1935 (previously described) -----	40 35 36.60	92 16 10.25	.....
Center of bridge, 122 ft. N. of rd. at fence W. on Iowa-Mo. State line -----	40 35 57.5	92 16 10.5	2,120
Rd. at fences E. and W. -----	40 36 09.6	92 15 19.5	4,123

(Continued in Cantril quadrangle; see line 1.)

Magnetic declination 6° 20' E.

MOULTON QUADRANGLE *
(Latitude 40°30'-40°45'; longitude 92°30'-92°45')

Putnam and Schuyler Counties



1. FROM QUEEN CITY QUADRANGLE NORTH ALONG WABASH RAILWAY TO GLENWOOD, THENCE EAST ALONG ROADS TO LANCASTER, THENCE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO PULASKI QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Queen City quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 66 N., R. 15 W., cor. secs. 14, 15, 22, and 23 -----	40 31 07.0	92 33 28.7	(23,601)
T. 66 N., R. 14 W., E. cor. secs. 13 and 24 -----	40 31 08.9	92 31 13.2	10,474

(Continued in Pulaski quadrangle; see line 1.)

2. FROM QUEEN CITY QUADRANGLE AT SEC. 30, T. 66 N., R. 14 W., WEST INTO QUEEN CITY QUADRANGLE AT SEC. 25, T. 66 N., R. 17 W. (by C. B. Kendall in 1910)
(Continued from Queen City quadrangle; see line 2.)

T-rd. E., 10 ft. W. of center of triangle -----	40 30 17.6	92 30 30.4	(5,631)
Rd. at fences N. and S. near buried stone at E. cor. secs. 13 and 24, T. 66 N., R. 15 W. -----	40 31 08.7	92 31 13.2	6,130
T. 66 N., R. 14 W., W. cor. secs. 18 and 19, R.R. iron at cross fences -----	40 31 10.2	92 31 13.2	151
Lancaster, in SE. corner of courthouse yard, 51 ft. N. of highway, 51 ft. W. of N.-S. street; iron post stamped "Prim Trav Sta No 3 1910 Mo" -----	40 31 20.70	92 31 37.37	2,151
Lancaster, center of clock tower of courthouse -----	40 31 20.86	92 31 38.65	100
T-rd. N. -----	40 31 20.8	92 32 31.7	4,097
T-rd. S. -----	40 31 07.1	92 33 11.7	3,385
T. 66 N., R. 15 W., cor. secs. 14, 15, 22, and 23, rd. at fences N. and S. -----	40 31 07.0	92 33 28.7	1,320
Glenwood, intersection of Fourth and Main Streets -----	40 31 12.3	92 34 23.7	4,282
Glenwood, Wabash Ry. at rd. crossing, 300 ft. S. of sta. -----	40 31 09.2	92 34 33.2	800
T. 66 N., R. 15 W., cor. secs. 16, 17, 20, and 21, stone, 5 ft. S. of rd. at T-rd. S., 240 ft. E. of bridge -----	40 31 06.2	92 35 45.6	5,601
T. 66 N., R. 15 W., cor. secs. 17, 18, 19, and 20, rd. at fences N. and S., 350 ft. W. of dwelling of Edward Ford -----	40 31 05.2	92 36 55.0	5,360
Glenwood, 3 mi. W. of, about 0.1 mi. E. of cor. secs. 13, 18, 19, and 24, T. 66 N., R. 15 W. and 16 W., 25 ft. E. of N.-S. rd., 40 ft. N. of center of triangle at T-rd. E.; iron post stamped "Prim Trav Sta No 4 1910 Mo" -----	40 31 04.08	92 37 56.31	4,742
T-rd. E. -----	40 31 03.9	92 37 56.6	29
Rd. forks on top of hill -----	40 31 00.7	92 38 59.2	4,859
Cross fences, 130 ft. N. of gate at rd. forks -----	40 31 02.1	92 38 59.6	141
Oak tree near S. end of triangle at rd. forks -----	40 31 17.0	92 40 15.7	6,068
Chariton River, center of McGoldricks ford across T. 66 N., R. 16 W., cor. secs. 15, 16, 21, and 22 -----	40 31 22.9	92 40 27.2	1,073
Livonia, 2.2 mi. W. of, Iowa & St. Louis Ry. (now abandoned) at rd. crossing -----	40 31 00.6	92 41 27.3	5,162
T-rd. E. -----	40 31 13.5	92 41 40.0	1,627
	40 31 06.4	92 42 18.2	3,038

*The greater part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Gate across rd. 250 ft. N. of bridge over Owl Creek -----	40 30 59.9	92 42 35.3	1,479
Crossroads -----	40 30 46.6	92 42 19.0	1,845
T-rd. N. -----	40 30 31.2	92 43 24.1	5,272
T-rd. S. on line between secs. 19 and 20, T. 66 N., R. 16 W. -----	40 30 26.7	92 43 43.4	1,560
T. 66 N., R. 16 W., quarter cor. between secs. 19 and 20, cross fences at old dwelling -----	40 30 31.6	92 43 43.4	500
T-rd. W. on line between secs. 19 and 24, T. 66 N., Rs. 16 and 17 W. -----	40 30 17.7	92 44 52.1	5,496

(Continued in Green City quadrangle; see line 1.)

3. FROM CENTERVILLE QUADRANGLE AT SEC. 13, T. 66 N., R. 17 W., SOUTH TO SEC. 19, T. 66 N., R. 16 W. (by C. B. Kendall in 1910)
(Continued from Centerville quadrangle; see line 1.)

T. 66 N., R. 17 W., E. cor. secs. 13 and 24, in stream, about 30 ft. E. of N.-S. rd. and 40 ft. NE. of bridge, in line with wire fence W. along abandoned rd. -----	40 30 56.7	92 44 52.4	3,966
T-rd. W. (previously described) -----	40 30 17.7	92 44 52.1	3,944
T. 66 N., Rs. 16 and 17 W., 0.2 mi. N. of cor. secs. 19, 24, 25, and 30, 10 ft. W. of rd. corner from N.-E., 20 ft. N. and 8 ft. E. from fence corner; iron post stamped "Prim Trav Sta No 13 1910 Mo" -----	40 30 17.68	92 44 52.39	24

4. FROM SEC. 19, T. 66 N., R. 16 W., NORTH TO IOWA-MISSOURI STATE LINE AT SEC. 29, T. 67 N., R. 16 W. (by E. L. McNair in 1923).

Prim Trav Sta No 13 1910 Mo (previously described) -----	40 30 17.68	92 44 52.39	.....
T. 66 N., Rs. 16 and 17 W., cor. secs. 13, 18, 19, and 24 -----	40 30 56.7	92 44 52.5	3,949
T-rd. S. on line between secs. 13 and 18, T. 66 N., Rs. 16 and 17 W. -----	40 31 39.0	92 44 52.5	4,283
T-rd. S. -----	40 31 52.9	92 44 18.0	3,012
T-rd. W. -----	40 31 59.5	92 43 52.1	2,118
Rd. forks near store at Chapel -----	40 32 42.5	92 43 55.6	4,362
Rd. at line between secs. 6 and 31, Tps. 66 and 67 N., R. 16 W. -----	40 33 33.4	92 44 01.6	5,170
T-rd. W. -----	40 34 25.7	92 43 56.8	5,313
T. 67 N., R. 16 W., approximate cor. secs. 29, 30, 31, and 32 -----	40 34 25.7	92 43 47.7	705
T-rd. N. -----	40 34 39.5	92 43 13.6	2,982
Iowa & St. Louis Ry. (now abandoned) at Iowa-Mo. State line -----	40 35 22.2	92 42 56.6	4,521

5. FROM IOWA-MISSOURI STATE LINE AT SEC. 13, T. 67 N., R. 15 W., SOUTH TO LANCASTER (by E. L. McNair in 1923)

T. 67 N., Rs. 14 and 15 W., approximate S. cor. secs. 13 and 18, on Iowa-Mo. State line, S. of rd. in line with rd. N., 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 39 Mac 1923" -----	40 35 37.52	92 31 24.35	.....
T-rd. S. on line between secs. 19 and 24, T. 67 N., Rs. 14 and 15 W. -----	40 35 37.9	92 31 14.5	760
T-rd. E. -----	40 34 51.0	92 31 14.7	4,750
T. 67 N., Rs. 14 and 15 W., approximate cor. secs. 25, 30, 31, and 36 -----	40 34 38.0	92 31 14.8	1,310
T. 67 N., Rs. 14 and 15 W., approximate quarter cor. between secs. 31 and 36 -----	40 34 12.0	92 31 14.6	2,640
T-rd. E. -----	40 33 45.7	92 31 31.6	2,958
T. 66 N., R. 15 W., near center sec. 1, 2 mi. N. of Lancaster, in line with rd. fork NE., 15 ft. S. of rd., 2 ft. from fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 40 Mac 1923" -----	40 33 15.40	92 31 49.42	3,367
T-rd. W. -----	40 32 40.2	92 31 14.0	4,492
Center of bridge -----	40 31 55.7	92 31 11.3	4,506
Prim Trav Sta No 3 1910 Mo (previously described) -----	40 31 20.70	92 31 37.37	4,076

6. FROM LANCASTER EAST ALONG STATE HIGHWAY 4 INTO PULASKI QUADRANGLE (by S. T. Tudor in 1935)

Prim Trav Sta No 3 1910 Mo (previously described) -----	40 31 20.70	92 31 37.37	.....
Highway at fences N. and S. -----	40 31 23.5	92 30 43.7	4,157
T. 66 N., R. 14 W., S. sixteenth cor. between secs. 17 and 18, highway at fences N. and S. --	40 31 23.8	92 30 09.4	2,650

(Continued in Pulaski quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet

7. FROM PULASKI QUADRANGLE AT SEC. 20, T. 67 N., R. 14 W., WEST ALONG
IOWA-MISSOURI STATE LINE TO SEC. 19, T. 67 N., R. 14 W. (by H. W. Gross
in 1935)

(Continued from Pulaski quadrangle; see line 3.)

T-rd. S. -----	40 35 40.4	92 30 01.8	(5,440)
T-rd. N. -----	40 35 38.5	92 30 47.5	3,534
Small triangulation sta.; U.S.C. & G.S. standard disk stamped "Small 1934" -----	40 35 38.02	92 31 24.31	2,840
Prim Trav Sta No 39 Mac 1923 (previously de- scribed) -----	40 35 37.52	92 31 24.35	51

8. FROM CENTERVILLE QUADRANGLE AT SEC. 24, T. 67 N., R. 17 W., SOUTH TO
SEC. 19, T. 66 N., R. 16 W. (by J. J. Beinlich in 1936)

(Continued from Centerville quadrangle; see line 3.)

T-rd. N. -----	40 35 36.8	92 44 00.6	(6,647)
T-rd. S., 70 ft. W. of Iowa & St. Louis Ry. (now abandoned) -----	40 35 41.6	92 43 07.5	4,127
T. 67 N., R. 16 W., near S. sixteenth cor. sec. 29, at intersection of tangent of T-rd. N., in concrete post; standard tablet stamped "T T 71 J J 1936" -----	40 34 40.02	92 43 14.13	6,257
T-rd. W. -----	40 35 48.8	92 44 08.0	6,646
Rd. forks -----	40 32 42.6	92 43 55.6	6,768
T. 66 N., R. 16 W., near quarter cor. between secs. 7 and 8, 97 ft. N. and 17 ft. W. from NW corner of Chapel Church, 33 ft. E. of rd., in concrete post; standard tablet stamped "T T 72 J J 1936" -----	40 32 30.46	92 43 43.78	1,532
Rd. forks -----	40 31 59.6	92 43 52.1	3,186
T. 66 N., Rs. 16 and 17 W., approximate quarter cor. between secs. 13 and 18, T-rd. S. -----	40 31 39.0	92 44 52.5	5,109
Rd. at fence W. -----	40 30 56.6	92 44 52.7	4,285
Prim Trav Sta No 13 1910 Mo (previously de- scribed) -----	40 30 17.68	92 44 52.39	3,940

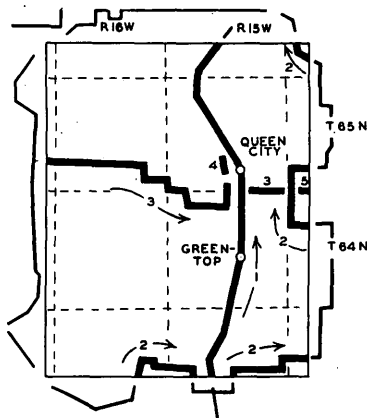
9. FROM SEC. 20, T. 67 N., R. 16 W., EAST TO SEC. 19, T. 67 N., R. 14 W.,
THENCE SOUTH TO LANCASTER (by J. J. Beinlich in 1936)

T-rd. S. (previously described) -----	40 35 41.6	92 43 07.5	.....
T-rd. S. -----	40 35 55.3	92 42 04.5	5,053
Coal City, Iowa, 1.6 mi. NE. of, in NE 1/4 sec. 16, T. 67 N., R. 16 W., 24 ft. S. and 37 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 73 J J 1936" -----	40 36 12.81	92 41 51.78	2,027
Rd. at fences N. and S. on line between secs. 14 and 15, T. 67 N., R. 16 W. -----	40 36 01.8	92 40 34.1	6,094
Rd. at fences N. and S. -----	40 35 33.6	92 39 54.8	4,154
Chicago, Burlington & Quincy R.R. at rd. crossing T. 67 N., Rs. 15 and 16 W., cor. secs. 13, 18, 19, and 24, T-rd. W. -----	40 35 42.4	92 39 35.0	1,767
Coatsville, 66 ft. N. of County Route B at rd. NW., in step of Holiness Church; standard tablet stamped "T T 75 J J 1936" -----	40 35 42.4	92 38 39.8	4,254
T. 67 N., R. 15 W., cor. secs. 19, 20, 29, and 30, T-rd. S. -----	40 35 24.72	92 37 59.86	3,558
T. 67 N., R. 15 W., N. cor. secs. 21 and 22, on Iowa-Mo. State line, 16 ft. N. of T-rd. S., 480 ft. N. of T-rd. W., in concrete post; standard tablet stamped "T T 76 J J 1936" -----	40 35 25.5	92 36 59.1	4,687
T. 67 N., R. 15 W., approximate S. cor. secs. 14 and 15, T-rd. N. on Iowa-Mo. State line -----	40 35 32.21	92 34 41.78	10,608
T. 67 N., R. 15 W., N. cor. secs. 23 and 24, T-rd. S. -----	40 35 34.2	92 33 39.9	4,777
Small triangulation sta. (previously described) - T-rd. E. -----	40 35 36.0	92 32 24.2	5,837
T. 67 N., R. 14 W., in SW 1/4 NW 1/4 sec. 32, 4.6 mi. NE. of Lancaster, 33 ft. W. of rd., 26 ft. S. and 48 ft. E. from SE. corner of dwelling of W. T. Andrews, in concrete post; standard tablet stamped "T T 77 J J 1936" -----	40 35 38.02	92 31 24.31	4,622
Lancaster, courthouse (previously described) -----	40 35 04.8	92 30 02.4	7,150
	40 34 16.16	92 30 02.00	4,924
	40 31 20.86	92 31 38.65	19,244

Magnetic declination 7° 01' E.

QUEEN CITY QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°30'-92°45')

Adair, Putnam, and Schuyler Counties



1. FROM KIRKSVILLE QUADRANGLE NORTH ALONG WABASH RAILWAY INTO MOULTON QUADRANGLE (by George T. Hawkins in 1900)
(Continued from Kirksville quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 64 N., R. 15 W., S. cor. secs. 33 and 34 -----	40 18 02.5	92 34 21.3	(19,312)
Sublett, R.R. at sta. -----	40 18 09.2	92 34 11.8	1,007
Greentop, R.R. at sta. -----	40 20 47.0	92 34 02.1	15,986
Queen City, R.R. at sta. -----	40 24 28.1	92 34 08.4	22,380
T. 65 N., R. 15 W., probable E. sixteenth cor. -----	40 25 27.2	92 34 40.3	6,467
sec. 21 -----	40 27 54.0	92 36 20.3	16,742
Julesburg, R.R. at sta. -----			

(Continued in Moulton quadrangle; see line 1.)

2. FROM KIRKSVILLE QUADRANGLE AT SEC. 23, T. 63 N., R. 16 W., EAST TO SEC. 19, T. 63 N., R. 14 W., THENCE NORTH INTO MOULTON QUADRANGLE AT SEC. 30, T. 66 N., R. 14 W. (by C. B. Kendall in 1910)
(Continued from Kirksville quadrangle; see line 3.)

T-rd. S. -----	40 15 34.9	92 39 50.0	(6,618)
White-oak tree in fence corner at gate across dim rd., 1,010 ft. W. of T-rd. S. -----	40 15 35.2	92 40 02.8	990
T. 63 N., R. 16 W., cor. secs. 13, 14, 23, and 24, cross fences in ravine, about 100 ft. SE. of sharp turn in rd. -----	40 15 22.1	92 38 54.9	5,433
Center of triangle at T-rd. N. -----	40 15 37.1	92 38 52.9	1,523
Center of triangle at rd. forks -----	40 15 22.9	92 38 20.6	2,889
T. 63 N., Rs. 15 and 16 W., approximate cor. secs. 13, 18, 19, and 24, rd. at fences N. and S. -----	40 15 23.7	92 37 46.5	2,640
T. 63 N., R. 15 W., W. sixteenth cor. between secs. 18 and 19, 25 ft. NE. of crossroads; iron post stamped "Prim Trav Sta No 6 1910 Mo" -----	40 15 24.11	92 37 29.59	1,320
Crossroads -----	40 15 23.9	92 37 29.8	25
T. 63 N., R. 15 W., cor. secs. 17, 18, 19, and 20, T-rd. N. -----	40 15 24.2	92 36 38.4	3,978

(For balance in Kirksville quadrangle, see line 3.)

T. 63 N., R. 15 W., quarter cor. between secs. 21 and 22, crossroads -----	40 15 00.1	92 34 22.2	(2,661)
T. 63 N., R. 15 W., quarter cor. between secs. 22 and 23, stone at center at crossroads -----	40 15 01.2	92 33 15.1	5,210
T. 63 N., R. 15 W., center sec. 23, T-rd. S., 1,500 ft. W. of bridge -----	40 15 01.5	92 32 41.0	2,650
T. 63 N., Rs. 14 and 15 W., approximate cor. secs. 13, 18, 19, and 24, crossroads -----	40 15 28.1	92 30 57.4	8,477

(For balance in Downing quadrangle, see line 2.)

T-rd. N. -----	40 22 00.4	92 30 43.5	(3,994)
Crossroads -----	40 22 39.6	92 30 43.6	3,960

Station	Latitude	Longitude	Distance
T. 64 N., Rs. 14 and 15 W., N. cor. secs. 1 and 6, 15 ft. S. of T-rd. N.; iron post stamped "Prim Trav Sta No 2 1910 Mo" -----	40 23 18.70	92 30 57.62	4,110
Tps. 64 and 65 N., Rs. 14 and 15 W., cor. of -----	40 23 18.8	92 30 57.6	15
T. 65 N., R. 14 W., W. cor. secs. 30 and 31, T-rd. E. -----	40 24 11.8	92 30 58.3	5,365
T. 65 N., R. 15 W., E. cor. secs. 25 and 36, T-rd. W. -----	40 24 11.4	92 30 58.2	40
(For balance in Downing quadrangle, see line 2.)			
T. 66 N., R. 14 W., cor. secs. 29, 30, 31, and 32, stone at T-fence W. -----	40 29 25.2	92 30 06.2	(1,372)
(Continued in Moulton quadrangle; see line 2.)			

3. FROM GREEN CITY QUADRANGLE AT SEC. 25, T. 65 N., R. 17 W., EAST TO SEC. 6, T. 64 N., R. 14 W. (by C. B. Kendall in 1910)
(Continued from Green City quadrangle; see line 4.)

Stone in center of crossroads -----	40 24 41.0	92 44 55.2	(975)
T. 65 N., R. 17 W., E. cor. secs. 24 and 25, 30 ft. S. of W. cor. secs. 19 and 30, T. 65 N., R. 16 W. -----	40 24 54.0	92 44 38.0	1,869
T-rd. N., 510 ft. E. of bridge -----	40 24 41.4	92 44 20.0	1,887
T. 65 N., R. 16 W., cor. secs. 19, 20, 29, and 30, stone at T-fence N. -----	40 24 55.3	92 43 28.8	4,208
Center of triangle at rd. forks -----	40 24 39.4	92 42 56.8	2,955
T. 65 N., R. 16 W., quarter cor. between secs. 28 and 29, junction of dim rd. S. -----	40 24 29.8	92 42 20.6	2,959
Worthington, cross streets at quarter cor. between secs. 27 and 28, T. 65 N., R. 16 W., 540 ft. W. of Iowa & St. Louis Ry. (now abandoned) at rd. crossing -----	40 24 30.7	92 41 12.4	5,280
Worthington, Iowa & St. Louis Ry. (now abandoned) at rd. crossing, 900 ft. S. of sta. -----	40 24 30.8	92 41 05.5	540
Chariton River, center of bridge over -----	40 24 28.6	92 40 22.1	3,366
T. 65 N., R. 16 W., center sec. 26, crossroads -----	40 24 31.7	92 39 29.9	4,054
T. 65 N., R. 16 W., quarter cor. between secs. 26 and 35, rd. at fence W. -----	40 24 05.6	92 39 29.8	2,635
Crossroads, 1,000 ft. S. of bridge -----	40 23 26.5	92 39 29.4	3,957
T. 65 N., R. 16 W., about 700 ft. E. of S. cor. secs. 35 and 36, in SW. corner of yard of Hartford School, 12 ft. N. and 140 ft. W. from T-rd. S.; iron post stamped "Prim Trav Sta No 15 1910 Mo" -----	40 23 13.96	92 38 47.10	3,513
T. 64 N., Rs. 15 and 16 W., N. cor. secs. 1 and 6, stone S. of rd. at fence S., 80 ft. W. of rd. at fence N. at S. cor. secs. 31 and 36, T. 65 N., Rs. 15 and 16 W. -----	40 23 14.4	92 37 46.6	4,682
Rd. fork SE. -----	40 23 14.8	92 37 20.8	1,999
T-rd. S. on line between secs. 5 and 6, T. 64 N., R. 15 W. -----	40 22 36.4	92 36 37.2	5,154
T. 64 N., R. 15 W., cor. secs. 4, 5, 8, and 9, crossroads -----	40 22 22.0	92 35 28.1	5,544
T. 64 N., R. 15 W., cor. secs. 3, 4, 9, and 10 -----	40 22 23.2	92 34 20.9	5,201
T. 64 N., R. 15 W., N. cor. secs. 3 and 4, rd. at point 50 ft. NE. of NE. corner of Green Valley School -----	40 23 15.9	92 34 20.9	5,340
T. 65 N., R. 15 W., S. cor. secs. 33 and 34 -----	40 23 15.9	92 34 22.9	160
Wabash Ry. at rd. crossing on line between secs. 3 and 34, Tps. 64 and 65 N., R. 15 W. -----	40 23 16.4	92 33 46.9	2,791
T. 65 N., R. 15 W., S. cor. secs. 34 and 35, T-rd. N. -----	40 23 16.8	92 33 14.6	2,500
T. 64 N., R. 15 W., N. cor. secs. 2 and 3, T-rd. S. -----	40 23 16.8	92 33 12.2	190
T-rd. S., 60 ft. W. of S. cor. secs. 35 and 36, T. 65 N., R. 15 W. -----	40 23 17.7	92 32 06.8	5,060
T. 65 N., R. 15 W., S. cor. secs. 35 and 36, rd. at fence N. -----	40 23 17.8	92 32 06.0	60
Prim Trav Sta No 2 1910 Mo (previously described) -----	40 23 18.70	92 30 57.62	5,292

4. FROM SEC. 3, T. 64 N., R. 15 W., NORTH ALONG WABASH RAILWAY TO QUEEN CITY (by C. B. Kendall in 1910)

R.R. at rd. crossing (previously described) -----	40 23 16.4	92 33 46.9	.....
Queen City, R.R. at rd. crossing at S. edge of -----	40 24 08.7	92 34 02.6	5,429
Queen City, R.R. at sta. (previously described) -----	40 24 28.1	92 34 08.4	2,010

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

5. FROM SEC. 31, T. 65 N., R. 14 W., SOUTH TO SEC. 6, T. 64 N., R. 14 W.,
THENCE EAST INTO DOWNING QUADRANGLE AT SEC. 31, T. 65 N., R. 14 W.
(by C. D. Craig in 1936)

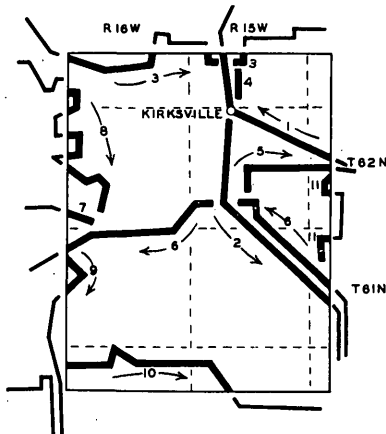
Myers triangulation sta.; U.S.C. & G.S. standard disk stamped "Myers 1934" -----	40 23 18.30	92 30 53.34	.....
Prim Trav Sta No 2 1910 Mo (previously de- scribed) -----	40 23 18.70	92 30 57.62	333
Rd. at fence N. -----	40 23 32.6	92 30 15.5	3,547

(Continued in Downing quadrangle; see line 8.)

Magnetic declination 7° 43' E.

KIRKSVILLE QUADRANGLE
(Latitude 40°00'-40°15'; longitude 92°30'-92°45')

Adair and Macon Counties



1. FROM La PLATA QUADRANGLE NORTHWEST ALONG QUINCY, OMAHA & KANSAS CITY
RAILROAD TO KIRKSVILLE, THENCE NORTH ALONG WABASH RAILWAY INTO
QUEEN CITY QUADRANGLE (by George T. Hawkins in 1900)
(Continued from La Plata quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 62 N., Rs. 14 and 15 W., approximate quarter cor. between secs. 13 and 18 -----	40 10 31.3	92 30 54.8	(30,012)
Kirksville, R.R. at crossing of Wabash Ry. -----	40 12 04.4	92 35 09.0	21,868
T. 63 N., R. 15 W., quarter cor. between secs. 20 and 21 -----	40 14 59.0	92 35 30.1	17,758

(Continued in Queen City quadrangle; see line 1.)

2. FROM KIRKSVILLE SOUTHEAST ALONG WABASH RAILWAY INTO La PLATA QUADRANGLE
(by George T. Hawkins in 1901)*

Kirksville, R.R. at crossing of Quincy, Omaha & Kansas City R.R. (previously described) -----	40 12 04.4	92 35 09.0	.....
T. 62 N., R. 15 W., cor. secs. 28, 29, 32, and 33 -----	40 08 21.4	92 35 25.7	22,604
Millard, R.R. at sta.** -----	40 06 25.4	92 32 46.3	17,072
T. 61 N., R. 15 W., cor. secs. 11, 12, 13, and 14 -----	40 05 43.8	92 32 00.3	5,530

(Continued in La Plata quadrangle; see line 2.)

3. FROM WINIGAN QUADRANGLE EAST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD TO
SEC. 23, T. 63 N., R. 16 W., THENCE EAST ALONG ROADS INTO QUEEN CITY
QUADRANGLE AT SEC. 21, T. 63 N., R. 15 W. (by C. B. Kendall in 1910)
(Continued from Winigan quadrangle; see line 1.)

Danforth, 0.5 mi. W. of, R.R. at rd. crossing at trestle 80.1 -----	40 14 32.5	92 44 43.4	3,729
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*Results not of third-order accuracy.

**It was reported by Joseph Smith, Nov. 3, 1938, that this sta. has been removed.

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 63 N., Rs. 16 and 17 W., approximate cor. secs. 19, 24, 25, and 30 -----	40 14 27.7	92 44 30.5	1,107
Danforth, 0.2 mi. E. of, center of N.-S. rd., 10 ft. E. of E. end of trestle 79.2, 130 ft. N. of rd. crossing to T-rd. W., 40 ft. E. of center of bridge, 70 ft. S. of T-rd. E. -----	40 14 24.7	92 43 45.6	3,500
T. 63 N., R. 16 W., cor. secs. 28, 29, 32, and 33, rd. corner, 730 ft. S. of R.R. at point 200 ft. E. of small coal mine -----	40 13 37.1	92 42 19.4	8,246
Novinger, R.R. at crossing of Chicago, Burlington & Quincy R.R., 230 ft. W. of R.R. at rd. crossing -----	40 13 48.6	92 42 04.8	1,624
Chariton River, 160 ft. W. of center of bridge over, point under W. end of trestle -----	40 14 10.1	92 41 12.1	4,630
R.R. at rd. crossing -----	40 14 30.4	92 40 02.2	5,801
T. 63 N., R. 16 W., cor. secs. 22, 23, 26, and 27, 5 ft. S. of R.R. at W. cattle guard, 30 ft. W. of R.R. at rd. crossing -----	40 14 30.2	92 40 02.6	36

(For balance in Queen City quadrangle, see line 2.)

T. 63 N., R. 15 W., center sec. 20, crossroads --	40 14 58.6	92 36 04.7	(3,679)
T. 63 N., R. 15 W., quarter cor. between secs. 20 and 21, Wabash Ry. at rd. crossing -----	40 14 59.0	92 35 30.1	2,673
T. 63 N., R. 15 W., center sec. 21, crossroads --	40 14 59.5	92 34 56.4	2,614

(Continued in Queen City quadrangle; see line 2.)

4. FROM KIRKSVILLE NORTH TO SEC. 21, T. 63 N., R. 15 W. (by C. B. Kendall in 1910)

Kirksville, R.R. crossing (previously described)-	40 12 04.4	92 35 09.0	.....
Kirksville, 0.8 mi. N. of, Wabash Ry. at rd. crossing on line between secs. 4 and 33, Tps. 62 and 63 N., R. 15 W. -----	40 12 48.7	92 35 09.4	4,478
T. 63 N., R. 15 W., S. quarter cor. sec. 33, T-rd. N. -----	40 12 48.8	92 34 56.7	990
T-rd. W. -----	40 13 54.3	92 34 56.6	6,630
T. 63 N., R. 15 W., quarter cor. between secs. 21 and 28, T-rd. E. -----	40 14 33.6	92 34 56.4	3,990
Crossroads (previously described) -----	40 14 59.5	92 34 56.4	2,620

5. FROM SEC. 27, T. 62 N., R. 15 W., NORTH ALONG U.S. HIGHWAY 63 TO SEC. 22, T. 62 N., R. 15 W., THENCE EAST ALONG STATE HIGHWAY 6 INTO La PLATA QUADRANGLE (by J. P. Anderson in 1934)

Kirksville, 2.2 mi. S. of S. limits of, 225 ft. S. and 57 ft. W. from junction of U.S. Highway 63, in concrete post; standard tablet stamped "765 C W A 1934" -----	40 08 57.76	92 34 13.62	.....
Highway at fences E. and W. -----	40 09 12.8	92 34 18.2	1,564
Highway at fences E. and W. -----	40 09 38.9	92 34 18.2	2,640
T. 62 N., R. 15 W., cor. secs. 15, 16, 21, and 22, junction of State Highway 6 -----	40 10 01.4	92 34 18.2	2,275
Junction of rd. S. -----	40 10 04.8	92 34 01.1	1,376
Junction of rd. N. -----	40 10 05.0	92 33 26.9	2,650
Junction of rd. N. -----	40 10 04.8	92 32 36.3	3,930
T. 62 N., R. 15 W., cor. secs. 13, 14, 23, and 24, 33 ft. N. and 3 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "1421 C W A 1934" -----	40 10 04.79	92 32 02.17	2,653
Junction of rd. S. -----	40 10 04.6	92 31 27.9	2,658
T. 62 N., Rs. 14 and 15 W., approximate cor. secs. 13, 18, 19, and 24, junction of rd. N. --	40 10 04.9	92 30 54.7	2,580
Junction of rd. S. -----	40 10 05.2	92 30 07.3	3,660

(Continued in La Plata quadrangle; see line 3.)

6. FROM BRASHEAR QUADRANGLE NORTHWEST ALONG U.S. HIGHWAY 63 TO SEC. 27, T. 62 N., R. 15 W., THENCE WEST ALONG STATE HIGHWAY 11 INTO WINIGAN QUADRANGLE (by S. T. Tudor in 1934-35)
(Continued from Brashear quadrangle; see line 6.)

Crossroad	40 03 58.0	92 30 04.3	(2,779)
T. 61 N., Rs. 14 and 15 W., about 0.2 mi. E. of cor. secs. 13, 18, 19, and 24, 40 ft. N. and 60 ft. W. from crossroad, in concrete post; standard tablet stamped "791 C W A 1934" -----	40 04 51.21	92 30 43.89	6,200
Crossroad	40 05 17.3	92 31 13.6	3,502
Crossroad on line between secs. 11 and 12, T. 61 N., R. 15 W. -----	40 05 51.9	92 32 00.3	5,049
Junction of rd. S. -----	40 06 16.6	92 32 33.4	3,583
T. 61 N., R. 15 W., in SE 1/4 sec. 3, 30 ft. S. of junction of rd. N., in concrete post; standard tablet stamped "792 C W A 1934" -----	40 06 42.13	92 33 08.61	3,767

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 61 N., R. 15 W., W. sixteenth cor. on N. line sec. 3, junction of rd. W. -----	40 07 28.5	92 34 00.9	6,208
Crossroad -----	40 08 20.8	92 34 04.0	5,299
795 C W A 1934 (previously described) -----	40 08 57.76	92 34 13.62	3,810
Highway at fences N. and S. -----	40 08 47.5	92 34 52.5	3,191
T. 62 N., R. 15 W., quarter cor. between secs. 28 and 29, junction of rd. N. -----	40 08 47.6	92 35 27.0	2,680
Junction of rd. S. -----	40 08 47.8	92 36 00.5	2,600
T. 62 N., R. 15 W., quarter cor. between secs. 29 and 30, highway at fence S. -----	40 08 48.0	92 36 34.3	2,630
Highway at fences N. and S. -----	40 08 47.9	92 37 08.6	2,659
T. 62 N., R. 15 W., in SW 1/4 sec. 30, 35 ft. W. of highway, in concrete post; standard tablet stamped "795 C W A 1934" -----	40 08 40.06	92 37 25.54	1,540
T. 61 N., R. 16 W., N. quarter cor. sec. 1, junction of rd. S. -----	40 07 29.7	92 38 24.5	8,462
T. 61 N., R. 16 W., N. quarter cor. sec. 2, 40 ft. S. and 60 ft. W. from junction of rd. S., in concrete post; standard tablet stamped "794 C W A 1934" -----	40 07 31.78	92 39 38.34	5,739
Highway at fences N. and S. -----	40 07 39.5	92 40 31.1	4,174
Chicago, Burlington & Quincy R.R. at highway crossing -----	40 07 24.6	92 41 39.4	5,516
Crossroad -----	40 07 26.8	92 42 21.6	3,286
Tps. 61 and 62 N., R. 16 W., quarter cor. between secs. 5 and 32, 50 ft. N. and 30 ft. E. from crossroad, in concrete post; standard tablet stamped "795 C W A 1935" -----	40 07 29.99	92 42 48.38	2,103
T. 62 N., R. 16 W., S. cor. secs. 31 and 32, highway at fence N. -----	40 07 29.4	92 43 23.5	2,729
Highway at fences N. and S. -----	40 07 15.5	92 43 57.4	3,089
Crossroad on line between secs. 1 and 6, T. 61 N., Rs. 16 and 17 W. -----	40 06 54.5	92 44 28.2	3,071

(Continued in Winigan quadrangle; see line 4.)

7. FROM SEC. 32, T. 62 N., R. 16 W., NORTHWEST INTO WINIGAN QUADRANGLE AT SEC. 36, T. 62 N., R. 17 W. (by S. T. Tudor in 1934-35)

795 C W A 1935 (previously described) -----	40 07 29.99	92 42 48.38	.....
Rd. corner from N.-W. at fence S. -----	40 07 55.7	92 43 55.1	5,800
T. 62 N., Rs. 16 and 17 W., approximate quarter cor. between secs. 31 and 36, rd. at fences N. and S. -----	40 07 56.1	92 44 35.3	3,118

(Continued in Winigan quadrangle; see line 7.)

8. FROM WINIGAN QUADRANGLE EAST ALONG STATE HIGHWAY 6 TO SEC. 31, T. 63 N., R. 16 W., THENCE SOUTH ALONG ROADS TO SEC. 32, T. 62 N., R. 16 W. (by S. T. Tudor in 1934-35)

Prim Trav Sta No 7 1910 Mo (In Winigan quadrangle; see line 2.) -----	40 13 42.25	92 45 25.37	.....
Crossroad -----	40 13 34.1	92 44 02.0	6,519
Rd. at fences E. and W. -----	40 13 09.6	92 44 08.0	2,524
Rd. fork W. on line between secs. 6 and 31, Tps. 62 and 63 N., R. 16 W. -----	40 12 46.1	92 44 02.2	2,415
Billys Creek, center of bridge over -----	40 12 33.5	92 44 37.0	2,981

(For balance in Winigan quadrangle, see line 5.)

Rd. forks -----	40 11 33.3	92 44 47.1	(2,628)
Rd. corner from N.-W. -----	40 10 49.2	92 44 50.6	4,463

(For balance in Winigan quadrangle, see line 5.)

T-fence S. -----	40 09 40.7	92 43 56.1	(8,406)
Rd. forks -----	40 09 40.1	92 42 45.2	5,509
Rd. at fences E. and W. on line between secs. 20 and 29, T. 62 N., R. 16 W. -----	40 09 14.3	92 42 41.5	2,624
Junction of abandoned rd. E. at fence W. -----	40 08 48.2	92 42 34.0	2,710
Rd. corner from NE.-W. at drive S. -----	40 08 22.0	92 42 44.0	2,756
795 C W A 1935 (previously described) -----	40 07 29.99	92 42 48.38	5,273

9. FROM WINIGAN QUADRANGLE AT SEC. 12, T. 61 N., R. 17 W., SOUTH INTO WINIGAN QUADRANGLE AT SEC. 24, T. 61 N., R. 17 W. (by S. T. Tudor in 1934-35)

T T 796 C W A 1934 (In Winigan quadrangle; see line 4.) -----	40 06 13.04	92 45 42.32	.....
T. 61 N., R. 16 W., W. sixteenth cor. between secs. 6 and 7, T-rd. N. -----	40 06 36.8	92 44 16.4	7,097
T. 61 N., R. 16 W., near E. sixteenth cor. sec. 18, 40 ft. S. of T-rd. N., in concrete post; standard tablet stamped "1544 E R A 1935" -----	40 05 16.30	92 43 44.83	8,503

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 61 N., R. 16 W., W. cor. secs. 18 and 19, crossroads -----	40 04 52.3	92 44 34.3	4,548
(Continued in Winigan quadrangle; see line 6.)			

10. FROM WINIGAN QUADRANGLE AT SEC. 12, T. 60 N., R. 17 W., EAST AND SOUTH
INTO ELMER QUADRANGLE AT SEC. 20, T. 60 N., R. 15 W. (by S. T. Tudor
in 1935)

T-rd. E. (In Winigan quadrangle; see line 6.) ---	40 01 13.0	92 45 27.0	.....
Crossroads -----	40 01 12.3	92 44 40.7	3,600
T. 60 N., R. 16 W., W. cor. secs. 7 and 18, rd. at fence N. -----	40 01 11.4	92 44 03.4	2,900
Rd. forks -----	40 01 16.0	92 42 29.1	7,352
Airway beacon 11 -----	40 01 40.93	92 42 33.50	2,548
South Gifford, 1.4 mi. W. of, about 600 ft. N. of E. sixteenth cor. sec. 8, T. 60 N., R. 16 W., 30 ft. N. and 20 ft. W. from rd. corner from W.-S., in concrete post; standard tablet stamped "1547 E R A 1935" -----	40 01 39.10	92 42 12.09	1,674
Rd. at fences N. and S. -----	40 01 32.8	92 41 36.0	2,879
T. 60 N., R. 16 W., quarter cor. between secs. 9 and 10, crossroads -----	40 01 31.8	92 40 45.0	3,963
Rd. at fence N. -----	40 01 31.0	92 40 10.9	2,655
T-rd. S. -----	40 01 17.1	92 39 36.6	3,017
T. 60 N., R. 16 W., 380 ft. W. of S. sixteenth cor. between secs. 11 and 12, 30 ft. N. and 4 ft. W. from County Route D at rd. S., 30 ft. S. and 81 ft. E. from SE. corner of school, in concrete post; standard tablet stamped "1548 E R A 1935" -----	40 01 15.03	92 38 37.06	4,634
County Route D at rd. S. -----	40 01 15.0	92 38 01.3	2,779
County Route D at rd. S. -----	40 01 15.3	92 37 21.5	3,099
County Route D at fence S. -----	40 01 24.2	92 36 49.0	2,678
Rd. corner from NW.-E. -----	40 00 58.4	92 36 10.7	3,968
Rd. at fences E. and W. -----	40 00 32.1	92 35 50.2	3,098
T. 60 N., R. 15 W., near quarter cor. between secs. 17 and 20, 15 (? 20) ft. N. and 30 ft. W. from T-rd. W. (? E.), in concrete post; stan- dard tablet stamped "1549 E R A 1935" -----	40 00 06.37	92 35 43.35	2,660

(Continued in Elmer quadrangle; see line 3.)

11. FROM SEC. 18, T. 61 N., R. 14 W., NORTH INTO La PLATA QUADRANGLE AT
SEC. 18, T. 62 N., R. 14 W. (by C. D. Craig in 1936)

791 C W A 1934 (previously described) -----	40 04 51.21	92 30 43.89	.....
T. 61 N., Rs. 14 and 15 W., approximate quarter cor. between secs. 13 and 18, T-rd. S. -----	40 05 17.0	92 30 54.2	2,731
T-rd. E. -----	40 05 42.9	92 30 38.1	2,900
T-rd. S. -----	40 06 35.1	92 30 20.6	5,451
T. 61 N., R. 14 W., in SW 1/4 sec. 6, 20 ft. N. and 20 ft. E. from E. end of 300-ft. jog in rd., in concrete post; standard tablet stamped "T T 127 C 1936" -----	40 06 48.71	92 30 29.86	1,558

(For balance in La Plata quadrangle, see line 8.)

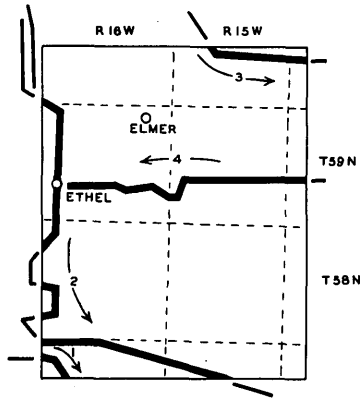
Rd. at fences E. and W. -----	40 09 39.1	92 30 07.4	(2,942)
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(Continued in La Plata quadrangle; see line 8.)

Magnetic declination 7° 09' E.

ELMER QUADRANGLE
(Latitude 39°45'-40°00'; longitude 92°30'-92°45')

Macon County



1. FROM BUCKLIN QUADRANGLE AT SEC. 1, T. 57 N., R. 17 W., SOUTH INTO COLLEGE MOUND QUADRANGLE AT SEC. 18, T. 57 N., R. 16 W. (by C. R. Fisher in 1924)
(Continued from Bucklin quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 57 N., R. 17 W., E. quarter cor. sec. 12, rd. corner -----	39 45 55.2	92 44 41.8	(4,273)
T-rd. E. -----	39 45 26.5	92 44 38.5	2,912

(Continued in College Mound quadrangle; see line 1.)

2. FROM BUCKLIN QUADRANGLE AT SEC. 1, T. 59 N., R. 17 W., SOUTH TO NEW CAMBERIA, THENCE SOUTHEAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO COLLEGE MOUND QUADRANGLE (by C. R. Fisher in 1924)
(Continued from Bucklin quadrangle; see line 6.)

Tps. 59 and 60 N., Rs. 16 and 17 W., cor. of, T-rd. S. -----	39 57 42.6	92 44 11.1	(4,465)
T. 59 N., R. 17 W., E. cor. secs. 1 and 12 -----	39 56 50.2	92 44 13.4	5,310
Ethel, 3 mi. N. of, W. quarter cor. sec. 7, T. 59 N., R. 16 W., 30 ft. N. and 4 ft. E. from junction of abandoned rd. E., 9 ft. N. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 66 F 1924 810" -----	39 56 22.69	92 44 14.12	2,787
T. 59 N., R. 17 W., E. cor. secs. 12 and 13, rd. fork W. -----	39 55 57.8	92 44 15.4	2,518
Rd. at transmission-line pole on top of ridge ---	39 54 53.0	92 44 17.4	6,560
T. 59 N., R. 16 W., W. cor. secs. 19 and 30 -----	39 54 12.3	92 44 18.8	4,120
Ethel, 25 ft. N. of school, in NW. corner of yard, in concrete post; standard tablet stamped "Prim Trav Sta No 67 F 1924 849" -----	39 53 43.35	92 44 19.98	2,935
Ethel, Atchison, Topeka and Santa Fe Ry. at Commercial Street crossing -----	39 53 35.7	92 44 22.5	803
Tps. 58 and 59 N., Rs. 16 and 17 W., cor. of ---	39 52 27.8	92 44 22.6	6,854
T. 58 N., R. 17 W., E. cor. secs. 1 and 12 -----	39 51 34.9	92 44 24.8	5,370
T. 58 N., R. 17 W., E. cor. secs. 12 and 13, 15 ft. S. and 15 ft. W. from rd. corner from N.-W., 1 ft. S. and 1 ft. W. from W. gatepost at rd. to field, in concrete post; standard tablet stamped "Prim Trav Sta No 68 F 1924 770" -----	39 50 42.59	92 44 26.29	5,300

(For balance in Bucklin quadrangle, see line 6.)

T. 58 N., R. 17 W., in SE 1/4 sec. 25, 35 ft. S. and 10 ft. E. from rd. forks SW., NE., and SE., 15 ft. S. and 4 ft. E. from gatepost, in concrete post; standard tablet stamped "Prim Trav Sta No 69 F 1924 880" -----	39 48 10.92	92 44 49.24	(7,552)
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(For balance in Bucklin quadrangle, see line 6.)

R.R. at milepost 85 -----	39 46 48.5	92 43 58.4	(5,430)
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Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
W. end of trestle -----	39 46 50.8	92 42 59.7	4,588
T. 57 N., R. 16 W., in SW 1/4 sec. 4, 50 ft. SW. of Methodist Church, 160 ft. N. of rd. crossing, E. of rd.; iron post stamped "Prim Trav Sta No 70 F 1924 1920 Mo 692" -----	39 46 33.58	92 42 02.09	4,825
Chariton River, W. end of bridge over -----	39 46 16.6	92 41 15.4	4,035
R.R. at rd. crossing on line between secs. 10 and 11, T. 57 N., R. 16 W. -----	39 45 54.1	92 40 06.9	5,806
R.R. at overgrade rd. crossing -----	39 45 44.8	92 38 48.6	6,186
Calleo, at NW. corner of Front and Market Streets, in SE. corner of park; iron post stamped "Prim Trav Sta No 71 F 1924 1920 Mo 819" -----	39 45 38.51	92 37 29.42	6,219
R.R. at overgrade rd. crossing -----	39 45 35.0	92 37 21.6	707
W. end of bridge -----	39 45 09.4	92 35 59.1	6,942

(Continued in College Mound quadrangle; see line 2.)

3. FROM KIRKSVILLE QUADRANGLE AT SEC. 20, T. 60 N., R. 15 W., EAST INTO ATLANTA QUADRANGLE AT SEC. 19, T. 60 N., R. 14 W. (by S. T. Tudor in 1935)

(Continued from Kirksville quadrangle; see line 10.)

T-rd. N. -----	39 59 39.9	92 35 36.2	(2,731)
T. 60 N., R. 15 W., quarter cor. between secs. 20 and 21, rd. at fences N. and S. -----	39 59 39.5	92 35 12.2	1,869
Crossroads -----	39 59 38.0	92 34 02.8	5,401
Center of bridge over creek -----	39 59 36.6	92 33 24.3	2,997
T-rd. N. -----	39 59 35.6	92 32 54.8	2,299
T. 60 N., R. 15 W., center sec. 23, 22 ft. S. and 12 ft. E. from rd. at fences N. and S., in concrete post; standard tablet stamped "1550 E R A 1935 892" -----	39 59 34.20	92 32 20.95	2,637
Junction of lane S. -----	39 59 33.0	92 31 12.9	5,298
T. 60 N., R. 14 and 15 W., approximate quarter cor. between secs. 19 and 24, rd. at fence N. -----	39 59 32.2	92 30 39.5	2,600

(Continued in Atlanta quadrangle; see line 5.)

4. FROM ATLANTA QUADRANGLE AT SEC. 19, T. 59 N., R. 14 W., WEST TO ETHEL (by S. T. Tudor in 1935)

(Continued from Atlanta quadrangle; see line 6.)

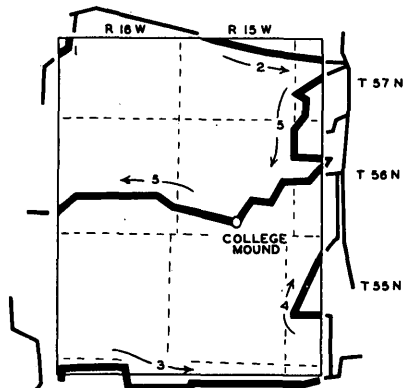
T-rd. N. -----	39 53 50.0	92 30 18.4	(2,631)
Rd. at fences N. and S. on line between secs. 25 and 30, T. 59 N., R. 14 and 15 W. -----	39 53 46.8	92 30 50.1	2,491
T. 59 N., R. 15 W., 480 ft. E. of N. sixteenth cor. between secs. 25 and 26, 102 ft. S. of farmhouse of J. H. Emdee, 30 ft. S. of rd. at curve, in concrete post; standard tablet stamped "1551 E R A 1935 894" -----	39 53 40.64	92 31 52.23	4,880
T-rd. S. -----	39 53 46.3	92 33 05.9	5,768
Rd. at fence S. -----	39 53 55.7	92 33 39.2	2,768
T. 59 N., R. 15 W., cor. secs. 21, 22, 27, and 28, rd. at fences N. and S. -----	39 53 56.7	92 34 13.2	2,646
T-rd. S. -----	39 53 57.6	92 34 47.2	2,654
T. 59 N., R. 15 W., cor. secs. 20, 21, 28, and 29, 35 ft. S. and 35 ft. E. from T-rd. S., in concrete post; standard tablet stamped "1552 E R A 1935 899" -----	39 53 58.25	92 35 21.12	2,644
T. 59 N., R. 15 W., cor. secs. 19, 20, 29, and 30, T-rd. S. -----	39 54 00.5	92 36 29.9	5,368
T-rd. N. -----	39 53 35.0	92 37 04.6	3,734
Rd. at fences E. and W. -----	39 53 09.3	92 37 31.1	3,319
T. 59 N., R. 15 and 16 W., approximate quarter cor. between secs. 31 and 36, crossroads -----	39 52 44.4	92 37 36.7	2,564
T. 59 N., R. 16 W., 650 ft. W. of center sec. 36, 5 ft. N. and 25 ft. W. from T-rd. E., in concrete post; standard tablet stamped "1553 E R A 1935 877" -----	39 52 45.81	92 38 20.29	3,404
Rd. at fences N. and S. -----	39 52 59.6	92 38 44.0	2,309
T-rd. N. -----	39 53 19.6	92 39 15.0	3,156
T. 59 N., R. 16 W., cor. secs. 26, 27, 34, and 35, rd. at fence S. -----	39 53 13.8	92 39 43.9	2,327
Rd. at fence S. -----	39 53 14.7	92 40 16.7	2,560
T. 59 N., R. 16 W., 775 ft. W. of quarter cor. between secs. 27 and 28, 545 ft. E. of bridge over Chariton River drainage ditch, 13 ft. N. and 18 ft. E. from rd. corner from SE-W., in concrete post; standard tablet stamped "1554 E R A 1935 712" -----	39 53 41.94	92 41 08.46	4,882
Rd. at fences N. and S. -----	39 53 43.3	92 42 06.9	4,554
Crossroads -----	39 53 44.1	92 42 40.6	2,625
T. 59 N., R. 16 W., quarter cor. between secs. 29 and 30, T-rd. S. -----	39 53 44.9	92 43 14.1	2,619

Station	Latitude	Longitude	Distance
Rd. at fences N. and S. -----	39 53 45.4	92 43 48.1	Feet 2,644
Prim Trav Sta No 67 F 1924 849 (previously described) -----	39 53 43.35	92 44 19.98	2,496

Magnetic declination in 1937, 7° E.

COLLEGE MOUND QUADRANGLE
(Latitude 39°30'-39°45'; longitude 92°30'-92°45')

Chariton, Macon, and Randolph Counties



1. FROM ELMER QUADRANGLE AT SEC. 18, T. 57 N., R. 16 W., WEST INTO MARCELINE QUADRANGLE AT SEC. 24, T. 57 N., R. 17 W. (by C. R. Fisher in 1924)
(Continued from Elmer quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
T. 57 N., R. 17 W., E. quarter cor. sec. 24, 30 ft. S. and 25 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 41 F 1924" -----	39 44 09.97	92 44 41.63	Feet (7,748)

(Continued in Marcelline quadrangle; see line 3.)

2. FROM ELMER QUADRANGLE EAST ALONG CHICAGO, BURLINGTON & QUINCY RAILROAD INTO MACON QUADRANGLE (by C. R. Fisher in 1924)
(Continued from Elmer quadrangle; see line 2.)

W. end of bridge -----	39 44 51.5	92 35 17.7	(3,707)
R.R. at rd. crossing -----	39 44 47.9	92 34 35.5	3,324
Bevier, 45 ft. W. of sta., 70 ft. N. of main track; iron post stamped "Prim Trav Sta No 72 F 1924 1920 Mo 791" -----	39 44 49.92	92 33 51.50	3,440
R.R. at overgrade rd. crossing -----	39 44 39.1	92 32 34.4	6,124
R.R. at milepost 73 -----	39 44 34.4	92 31 12.0	6,454
R.R. at milepost 72 -----	39 44 25.3	92 30 08.6	5,040

(Continued in Macon quadrangle; see line 5.)

3. FROM SALISBURY QUADRANGLE AT SEC. 7, T. 54 N., R. 16 W., EAST INTO MOBERLY QUADRANGLE AT SEC. 5, T. 54 N., R. 14 W., INCLUDING THAT PART OF THE LINE IN HUNTSVILLE QUADRANGLE (by R. E. Brown in 1935)*

Prim Trav Sta No 47 F 1924 (Described in Marcelline quadrangle; see line 3.) -----	39 29 22.67	92 45 23.17	.....
T. 54 N., R. 16 W., cor. secs. 5, 6, 7, and 8, crossroads -----	39 30 11.0	92 44 17.5	7,102
T. 54 N., R. 16 W., cor. secs. 4, 5, 8, and 9, 21 ft. N. and 45 ft. W. from crossroads, 126 ft. N. and 56 ft. E. from SE. corner of dwelling of J. W. Wright, in concrete post; standard tablet stamped "2104 E R A 1935" -----	39 30 09.62	92 43 10.18	5,280
T. 54 N., R. 16 W., cor. secs. 3, 4, 9, and 10, crossroads on Chariton-Randolph county line -----	39 30 07.5	92 42 01.4	5,399

*Published also as line 4 of the Huntsville quadrangle (see Bull. 916-G).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Junction of private rd. S., 15 ft. E. of rd. at fences N. and S. at quarter cor. between secs. 3 and 10, T. 54 N., R. 16 W. -----	39 30 06.8	92 41 27.5	2,656
T-rd. N. -----	39 30 05.8	92 40 53.6	2,665
T. 54 N., R. 16 W., center sec. 11, rd. corner from N.-E. at fence W. -----	39 29 39.2	92 40 21.2	3,693
T. 54 N., R. 16 W., quarter cor. between secs. 11 and 12, 23 ft. S. and 55 ft. W. from State Highway 3 at crossroad, in concrete post; standard tablet stamped "2105 E R A 1935" -----	39 29 38.10	92 39 48.33	2,583
T. 54 N., R. 16 W., E. quarter cor. sec. 12, T-rd. W. -----	39 29 39.9	92 38 40.0	5,361
T-rd. W. -----	39 29 48.3	92 37 37.5	4,973
T. 54 N., R. 15 W., E. sixteenth cor. between secs. 5 and 8, 18 ft. N. and 222 ft. W. from rd. at fence S., 16 ft. S. and 38 ft. W. from SW. corner of dwelling of W. Rice, 2 ft. S. and 2 ft. E. from fence corner, in concrete post; standard tablet stamped "2106 E R A 1935" -----	39 30 00.82	92 36 49.25	3,990
T-rd. S. -----	39 29 59.0	92 35 55.5	4,219
Dark Creek, center of bridge over -----	39 29 57.8	92 35 27.5	2,200
County Route C at crossroad -----	39 29 56.2	92 34 14.8	5,700
T. 54 N., R. 15 W., quarter cor. between secs. 2 and 11, stone at fence corner -----	39 29 55.3	92 33 41.1	2,644
T. 54 N., R. 15 W., in SE 1/4 sec. 2, near dwelling of G. W. Gross, 43 ft. N. of rd., 24 ft. N. and 2 ft. E. from corner fence post of barnyard, in concrete post; standard tablet stamped "2107 E R A 1935" -----	39 29 55.15	92 33 21.59	1,529
T-rd. S. -----	39 29 54.7	92 32 33.6	3,767
East Fork of Chariton River, center of bridge over -----	39 29 55.8	92 31 59.7	2,653
T-rd. N. -----	39 29 54.7	92 31 29.5	2,374
Rd. corner from S.-E. at fences N. and W. -----	39 29 54.8	92 30 55.5	2,667
Prim Trav Sta No 1 Mo 1912 (Described in Macon quadrangle; see line 4.) -----	39 29 53.09	92 29 47.48	5,333

4. FROM MACON QUADRANGLE AT SEC. 26, T. 55 N., R. 14 W., WEST AND NORTHEAST INTO MACON QUADRANGLE AT SEC. 8, T. 55 N., R. 14 W.
(by C. W. Williams in 1936)

(Continued from Macon quadrangle; see line 13.)

Rd. at fence N. -----	39 32 04.3	92 30 16.6	(3,941)
T. 55 N., R. 14 W., quarter cor. between secs. 29 and 30, rd. at fence N. -----	39 32 04.5	92 30 50.5	2,651
Center of triangle formed by rd. junction -----	39 32 06.0	92 31 20.9	2,390
Rd. at fences E. and W. -----	39 32 44.0	92 30 58.5	4,225
Rd. at fences E. and W. -----	39 33 23.2	92 30 43.7	4,135
T. 55 N., R. 14 W., 500 ft. E. of quarter cor. between secs. 17 and 18, 20 ft. N. and 2 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 14 W 1936" -----	39 33 49.45	92 30 40.17	2,666
Rd. at fences E. and W. -----	39 34 15.1	92 30 20.6	3,017

(Continued in Macon quadrangle; see line 13.)

5. FROM MACON QUADRANGLE AT SEC. 20, T. 57 N., R. 14 W., SOUTH TO SEC. 20, T. 56 N., R. 14 W., THENCE WEST INTO MARCELINE QUADRANGLE AT SEC. 36, T. 56 N., R. 17 W. (by C. W. Williams in 1936)

(Continued from Macon quadrangle; see line 14.)

Rd. at fences N. and S. -----	39 43 44.8	92 30 04.5	(2,856)
T. 57 N., R. 14 W., in NW 1/4 sec. 30, 112 ft. S. and 78 ft. W. from Buchanan School, 39-ft. E. of rd., in concrete post; standard tablet stamped "T T 15 W 1936" -----	39 43 17.43	92 30 50.73	4,549
T-rd. S. -----	39 42 47.9	92 31 14.0	3,498
T. 57 N., R. 14 W., W. cor. secs. 30 and 31, rd. at fences E. and W. -----	39 42 34.2	92 31 14.6	1,390
Crossroads -----	39 42 21.2	92 31 15.2	1,318
T-rd. E. -----	39 42 07.2	92 30 25.4	4,136
T. 56 N., R. 14 W., in NE 1/4 sec. 6, 70 ft. S. and 56 ft. E. from dwelling of W. C. Shearan, 215 ft. S. of fence W., 27 ft. W. of rd., in concrete post; standard tablet stamped "T T 16 W 1936" -----	39 41 39.32	92 30 26.86	2,826
Crossroads -----	39 41 13.2	92 30 28.4	2,650
T. 56 N., R. 14 W., W. quarter cor. sec. 6, rd. E. from crossroads, 24 ft. S. of rd. W. from crossroads -----	39 41 14.8	92 31 17.1	3,812
T. 56 N., R. 14 W., W. cor. secs. 6 and 7, rd. at fence E. -----	39 40 49.7	92 31 17.9	2,537
T. 56 N., R. 15 W., in NE 1/4 sec. 13, 3 ft. S. and 18 ft. W. from T-rd. E., 27 ft. S. and 57 ft. E. from dwelling of J. F. Lucas, in concrete post; standard tablet stamped "T T 17 W 1936" -----	39 39 58.00	92 31 36.47	5,431

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. S. -----	39 39 55.5	92 30 30.5	5,164
Crossroads -----	39 39 42.5	92 30 30.8	1,319
T-rd. N. -----	39 39 04.0	92 30 31.8	3,900
T. 56 N., R. 14 W., cor. secs. 17, 18, 19, and 20, rd. at fences N. and S. -----	39 39 03.7	92 30 15.0	1,317
(For balance in Macon quadrangle, see line 14.)			
T. 56 N., R. 14 W., cor. secs. 19, 20, 29, and 30, crossroads -----	39 38 12.0	92 30 16.3	(2,943)
Rd. at fences N. and S. -----	39 38 13.3	92 31 22.3	5,171
T. 56 N., R. 15 W., on line between secs. 24 and 25, 80 ft. N. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 7 W 1936" -----	39 38 14.26	92 32 00.78	3,008
Stone in N.-S. fence line, 80 ft. N. of rd. -----	39 37 47.7	92 32 47.4	4,530
T-rd. E. -----	39 37 35.0	92 33 04.1	1,830
T-rd. S. -----	39 37 22.2	92 33 15.0	1,554
T. 56 N., R. 15 W., cor. secs. 26, 27, 34, and 35, rd. at fence N. -----	39 37 22.4	92 33 38.5	1,843
College Mound, 57 ft. N. and 36 ft. W. from NW. corner of tile schoolhouse, 4 ft. N. and 34 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 8 W 1936" -----	39 37 22.98	92 34 21.50	3,362
T. 56 N., R. 15 W., cor. secs. 27, 28, 33, and 34, rd. at fences N. and S. -----	39 37 23.6	92 34 45.8	1,899
Crossroads -----	39 37 24.1	92 35 36.4	3,962
T-rd. N. -----	39 37 24.4	92 36 12.6	2,828
T. 56 N., R. 15 W., cor. secs. 29, 30, 31, and 32, T-rd. S. -----	39 37 25.3	92 37 00.4	3,740
T. 56 N., Rs. 15 and 16 W., cor. secs. 25, 30, 31, and 36, 28 ft. N. and 34 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 9 W 1936" -----	39 37 26.75	92 38 08.97	5,370
T. 56 N., R. 16 W., quarter cor. between secs. 25 and 26, rd. at fence N. -----	39 37 53.6	92 39 13.6	5,737
T. 56 N., R. 16 W., center sec. 26, State Highway 3 at crossroad -----	39 37 53.9	92 39 47.5	2,650
T. 56 N., R. 16 W., quarter cor. between secs. 26 and 27, rd. at fence S. -----	39 37 54.3	92 40 21.2	2,635
T. 56 N., R. 16 W., W. sixteenth cor. sec. 27, 18 ft. S. and 28 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 10 W 1936" -----	39 37 55.02	92 41 12.09	3,986
T. 56 N., R. 16 W., center sec. 28, rd. at fence- T-rd. W. -----	39 37 56.1	92 42 01.9	3,900
Rd. at fence N. -----	39 37 48.3	92 42 36.2	2,795
T. 56 N., R. 16 W., quarter cor. between secs. 29 and 30, rd. corner from N.-W. -----	39 37 56.9	92 43 26.7	4,044
T. 56 N., R. 16 W., center sec. 30, 30 ft. S. of rd., 3 ft. E. of fence, in concrete post; standard tablet stamped "T T 11 W 1936" -----	39 37 57.2	92 43 43.7	1,326
T. 56 N., R. 16 W., W. quarter cor. sec. 30, T-rd. S., 48 ft. W. of T-rd. N. -----	39 37 57.79	92 44 17.35	2,637
T. 56 N., Rs. 16 and 17 W., approximate cor. secs. 25, 30, 31, and 36, rd. at fences E. and W. -----	39 37 59.0	92 44 51.2	2,651
T-rd. W. -----	39 37 33.0	92 44 51.8	2,626
	39 37 04.6	92 44 52.6	2,885

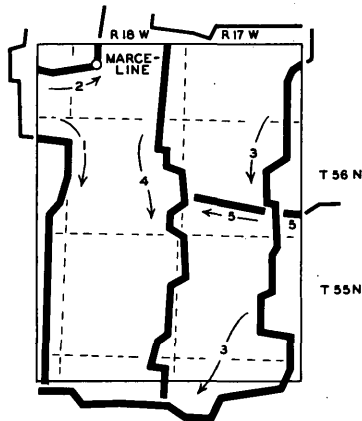
(Continued in Marceline quadrangle; see line 5.)

Magnetic declination 6° 14' E.

221629 C-40-8

MARCELINE QUADRANGLE
(Latitude 39°30'–39°45'; longitude 92°45'–93°00')

Chariton, Linn, and Macon Counties



1. FROM ROTHVILLE QUADRANGLE AT SEC. 11, T. 56 N., R. 19 W., SOUTH AND WEST INTO BRUNSWICK QUADRANGLE AT SEC. 11, T. 54 N., R. 19 W., INCLUDING THAT PART OF THE LINE IN SALISBURY QUADRANGLE (by C. R. Fisher in 1924)
(Continued from Rothville quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. N. -----	39 40 51.2	92 59 24.3	(5,142)
T. 56 N., Rs. 18 and 19 W., quarter cor. between secs. 7 and 12, 213 ft. S. and 30 ft. W. from T-rd. W., in SE. corner of yard of Smith Center School, in concrete post; standard tablet stamped "Prim Trav Sta No 22 F 1924" -----	39 40 47.31	92 58 16.67	5,298
T-rd. E. -----	39 40 24.1	92 58 16.6	2,348
T. 56 N., Rs. 18 and 19 W., approximate cor. secs. 13, 16, 19, and 24, T-rd. E. -----	39 39 31.7	92 58 17.3	5,300
T. 56 N., R. 18 W., W. cor. secs. 19 and 30, T-rd. E. -----	39 36 38.8	92 58 18.2	5,351
T. 56 N., R. 19 W., E. cor. secs. 24 and 25, T-rd. W. -----	39 38 38.3	92 58 18.2	60
T. 56 N., R. 19 W., quarter cor. between secs. 24 and 25, T-rd. S. -----	39 38 39.1	92 58 52.4	2,670
T. 56 N., R. 19 W., quarter cor. between secs. 25 and 36, 20 ft. N. and 20 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 23 F 1924" -----	39 37 46.97	92 58 53.67	5,271
T. 56 N., R. 19 W., cor. secs. 25, 26, 35, and 36, T-rd. S. -----	39 37 47.4	92 59 27.3	2,630
T. 56 N., R. 19 W., S. cor. secs. 35 and 36, T-rd. N. -----	39 36 54.8	92 59 28.0	5,320
T. 55 N., R. 19 W., N. cor. secs. 1 and 2, T-rd. S. -----	39 36 54.8	92 59 30.3	170
T. 55 N., R. 19 W., cor. secs. 1, 2, 11, and 12 - T-rd. E. -----	39 35 53.4	92 59 35.3	6,230
T. 55 N., R. 19 W., cor. secs. 11, 12, 13, and 14, 30 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 24 F 1924" -----	39 35 26.9	92 59 36.3	2,680
T. 55 N., R. 19 W., cor. secs. 13, 14, 23, and 24, crossroads -----	39 34 59.99	92 59 37.24	2,725
T. 55 N., R. 19 W., cor. secs. 23, 24, 25, and 26, crossroads -----	39 34 07.2	92 59 39.5	5,340
T. 55 N., R. 19 W., cor. secs. 25, 26, 35, and 36, 25 ft. S. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 25 F 1924" -----	39 33 14.4	92 59 41.9	5,351
T. 55 N., R. 19 W., S. cor. secs. 35 and 36, T-rd. N. -----	39 32 21.34	92 59 43.59	5,370
T. 54 N., R. 19 W., cor. secs. 1, 2, 11, and 12, crossroads -----	39 31 28.2	92 59 47.0	5,385
T. 54 N., R. 19 W., cor. secs. 11, 12, 13, and 14, 30 ft. N. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 26 F 1924" -----	39 30 35.7	92 59 49.2	5,310
	39 29 42.95	92 59 51.45	5,340

(Continued in Rothville quadrangle; see line 5.)

* Published also in Salisbury quadrangle (see Bull. 916-G).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
2. FROM ROTHVILLE QUADRANGLE AT SEC. 23, T. 57 N., R. 19 W., EAST AND NORTH INTO BUCKLIN QUADRANGLE AT SEC. 17, T. 57 N., R. 18 W. (by C. R. Fisher in 1924)			
Prim Trav Sta No 10 F 1924 (In Rothville quadrangle; see line 2.)	39 44 24.79	93 00 30.60	.....
T. 57 N., R. 19 W., cor. secs. 23, 24, 25, and 28, T-rd. S.	39 43 56.0	92 59 21.1	6,158
T. 57 N., R. 18 W., quarter cor. between secs. 19 and 30, T-rd. N.	39 43 54.3	92 57 38.1	8,054
Marceline, at N. limits of, 25 ft. S. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 35 F 1924"	39 43 51.99	92 56 29.79	5,344
T. 57 N., R. 18 W., quarter cor. between secs. 17 and 20, T-rd. E.	39 44 45.1	92 56 28.8	5,380
(Continued in Bucklin quadrangle; see line 3.)			

3. FROM COLLEGE MOUND QUADRANGLE AT SEC. 24, T. 57 N., R. 17 W., SOUTH TO SEC. 12, T. 54 N., R. 17 W., THENCE WEST TO SEC. 11, T. 54 N., R. 19 W., INCLUDING THAT PART OF THE LINE IN SALISBURY QUADRANGLE (by C. R. Fisher in 1924)*

(Continued from College Mound quadrangle; see line 1.)

Rd. forks	39 44 11.0	92 45 48.4	(5,217)
T. 57 N., R. 17 W., cor. secs. 25, 26, 35, and 36, crossroads	39 42 51.1	92 45 50.4	8,090
Tps. 56 and 57 N., R. 17 W., approximate cor. secs. 1, 2, 35, and 36, 25 ft. N. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 42 F 1924"	39 41 58.42	92 45 52.44	5,330
T. 56 N., R. 17 W., cor. secs. 1, 2, 11, and 12, T-rd. N.	39 41 04.4	92 45 53.6	5,468
Crossroads	39 40 25.3	92 45 54.6	3,960
T. 56 N., R. 17 W., quarter cor. between secs. 13 and 14, T-rd. E.	39 39 45.2	92 45 55.5	4,051
T. 56 N., R. 17 W., cor. secs. 13, 14, 23, and 24, 30 ft. S. and 40 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 43 F 1924"	39 39 19.61	92 45 56.47	2,595
T. 56 N., R. 17 W., cor. secs. 14, 15, 22, and 23, crossroads	39 39 19.6	92 47 03.8	5,250
T. 56 N., R. 17 W., quarter cor. between secs. 26 and 35, T-rd. W.	39 37 34.7	92 46 33.0	10,890
Bynumville, at N. limits of, 36 ft. S. and 31 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 44 F 1924"	39 37 07.96	92 46 33.49	2,704
T. 56 N., R. 17 W., S. quarter cor. sec. 35, T-rd. N.	39 36 42.0	92 46 34.5	2,624
T-rd. E.	39 36 11.2	92 46 31.6	3,126
T. 55 N., R. 17 W., quarter cor. between secs. 1 and 2, rd. corner from W.-S.	39 35 58.1	92 46 15.4	1,836
T. 55 N., R. 17 W., cor. secs. 1, 2, 11, and 12 - Bynumville, 3 mi. S. of, E. sixteenth cor. between secs. 11 and 14, T. 55 N., R. 17 W., 30 ft. S. and 20 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 45 F 1924"	39 35 31.8	92 46 17.2	2,660
T. 55 N., R. 17 W., cor. secs. 14, 15, 22, and 23, T-rd. W.	39 34 39.03	92 46 37.00	5,565
T. 55 N., R. 17 W., cor. secs. 22, 23, 26, and 27, T-rd. W.	39 33 46.6	92 47 30.4	6,752
T. 55 N., R. 17 W., quarter cor. between secs. 26 and 35, T-rd. S.	39 32 54.5	92 47 32.9	5,282
Prairie Hill, 1 mi. W., thence 1 mi. N. from, 30 ft. S. and 25 ft. E. from crossroads at cor. secs. 25, 30, 31, and 36, T. 55 N., R. 16 and 17 W., 30 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 46 F 1924"	39 32 01.5	92 47 01.3	5,905
Tps. 54 and 55 N., R. 16 and 17 W., cor. of, crossroads	39 32 01.80	92 45 17.89	8,105
T. 54 N., R. 17 W., E. cor. secs. 1 and 12, T-rd. W.	39 31 09.3	92 45 19.9	5,319
Prairie Hill, 1 mi. W., thence 2 mi. S. from, 10 ft. N. and 20 ft. E. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 47 F 1924"	39 30 16.0	92 45 21.8	5,391
T. 54 N., R. 17 W., cor. secs. 11, 12, 13, and 14, crossroads	39 29 22.67	92 45 23.17	5,396
T. 54 N., R. 17 W., cor. secs. 10, 11, 14, and 15, crossroads	39 29 22.8	92 46 30.5	5,280
T. 54 N., R. 17 W., cor. secs. 9, 10, 15, and 16, 25 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 48 F 1924"	39 29 23.6	92 47 37.7	5,270
	39 29 24.59	92 48 45.38	5,305

* Line 2 of Salisbury quadrangle includes a portion of this line (see Bull. 916-G).
 ** In 1929 this tablet was moved 6 ft. S. and 6 ft. E. of its original location. The above description and coordinates given refer to the new position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 54 N., R. 17 W., cor. secs. 8, 9, 16, and 17, crossroads -----	39 29 25.4	92 49 53.9	5,370
T. 54 N., R. 17 W., cor. secs. 16, 17, 20, and 21, T-rd. W. -----	39 28 32.1	92 49 55.3	5,390
E. pier of bridge over drainage ditch -----	39 28 32.6	92 51 41.2	8,310
T-rd. N. -----	39 28 59.1	92 52 05.0	3,261
T. 54 N., R. 18 W., in S½ sec. 12, 45 ft. W. of rd. forks, in concrete post; standard tablet stamped "Prim Trav Sta No 49 F 1924" -----	39 29 34.93	92 52 41.40	4,616
T-rd. S. -----	39 29 27.0	92 53 49.4	5,392
T. 54 N., R. 18 W., cor. secs. 10, 11, 14, and 15, T-rd. N. -----	39 29 26.2	92 54 23.4	2,670
T-rd. P. -----	39 29 27.1	92 55 13.4	3,916
T. 54 N., R. 18 W., in W½ sec. 16, NW. of crossroads, 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 50 F 1924" -----	39 29 06.12	92 56 19.62	5,612
Mussel Fork, center of bridge over -----	39 29 10.4	92 57 07.6	3,788
T-rd. W. -----	39 29 23.5	92 57 41.9	2,995
T. 54 N., Rs. 18 and 19 W., approximate cor. secs. 7, 12, 13, and 18, T-rd. W. -----	39 29 40.7	92 58 43.5	5,135
Prim Trav Sta No 26 F 1924 (previously described) -----	39 29 42.95	92 59 51.45	5,333

4. FROM BUCKLIN QUADRANGLE AT SEC. 12, T. 57 N., R. 18 W., SOUTH TO SEC. 12, T. 54 N., R. 18 W., INCLUDING THAT PART OF THE LINE IN SALISBURY QUADRANGLE (by C. R. Fisher in 1924)

Prim Trav Sta No 38 F 1924 (In Bucklin quadrangle; see line 3.) -----	39 45 32.80	92 52 13.77	.....
Mail-box wheel at rd. forks -----	39 44 51.1	92 52 15.6	4,225
Rd. forks -----	39 44 04.0	92 52 15.0	4,770
T. 57 N., R. 18 W., cor. secs. 23, 24, 25, and 26, rd. forks -----	39 43 48.1	92 52 32.8	2,124
T. 57 N., R. 18 W., quarter cor. between secs. 25 and 26 -----	39 43 20.5	92 52 33.7	2,790
Marceline, 3.4 mi. E. of (measured from State Highway 5) along County Route 2, 200 ft. E. of Hardin School, 30 ft. S. and 20 ft. E. from highway at N.-S. rd., 11 ft. N. and 6 ft. E. from corner fence post, in concrete post; standard tablet stamped "Prim Trav Sta No 51 F 1924" -----	39 42 54.53	92 52 51.22	2,966
T-rd. N. -----	39 42 02.0	92 52 53.1	5,316
T. 56 N., R. 18 W., quarter cor. between secs. 2 and 11, crossroads -----	39 41 10.7	92 53 09.8	5,359
T. 56 N., R. 18 W., cor. secs. 11, 12, 13, and 14, 20 ft. N. and 20 ft. W. from rd. corner, in concrete post; standard tablet stamped "Prim Trav Sta No 52 F 1924" -----	39 40 17.28	92 52 37.94	5,950
T. 56 N., R. 18 W., cor. secs. 13, 14, 23, and 24 -----	39 39 24.5	92 52 40.4	5,347
T. 56 N., Rs. 17 and 18 W., approximate cor. secs. 13, 18, 19, and 24, T-rd. W. -----	39 39 23.4	92 51 32.0	5,350
T. 56 N., Rs. 17 and 18 W., approximate cor. secs. 19, 24, 25, and 30, crossroads -----	39 38 31.8	92 51 34.0	5,221
T. 56 N., Rs. 17 and 18 W., cor. secs. 25, 30, 31, and 36, T-rd. N. -----	39 37 39.1	92 51 36.0	5,341
T. 56 N., R. 18 W., quarter cor. between secs. 25 and 36, 30 ft. S. and 20 ft. W. from T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 53 F 1924" -----	39 37 39.19	92 52 09.75	2,645
T. 56 N., R. 18 W., S. quarter cor. sec. 36, T-rd. N. -----	39 36 47.0	92 52 10.6	5,281
T. 55 N., Rs. 17 and 18 W., N. cor. secs. 1 and 6, T-rd. S. -----	39 36 46.4	92 51 46.9	1,860
T-rd. W. -----	39 35 55.3	92 51 49.3	5,170
T. 55 N., R. 18 W., E. cor. secs. 1 and 12, T-rd. W. -----	39 35 29.1	92 51 50.6	2,660
T. 55 N., R. 18 W., E. sixteenth cor. between secs. 12 and 13, 30 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 54 F 1924" -----	39 34 36.77	92 52 10.25	5,512
T. 55 N., R. 18 W., quarter cor. between secs. 13 and 24, T-rd. S. -----	39 33 45.0	92 52 29.3	5,448
T-rd. E. -----	39 32 52.6	92 52 31.1	5,300
T. 55 N., R. 18 W., quarter cor. between secs. 25 and 36, T-rd. N. -----	39 31 59.9	92 52 33.9	5,340
T. 55 N., R. 18 W., cor. secs. 25, 26, 35, and 36, about 300 ft. N. of Frather School, 20 ft. N. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 55 F 1924" -----	39 32 01.97	92 53 06.64	2,572
T. 55 N., R. 18 W., S. cor. secs. 35 and 36, T-rd. N. -----	39 31 09.3	92 53 09.7	5,338

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 54 N., R. 18 W., N. cor. secs. 1 and 2, T-rd. S. -----	39 31 09.3	92 53 11.5	140
T. 54 N., R. 18 W., quarter cor. between secs. 1 and 2, T-rd. E. -----	39 30 46.5	92 53 12.7	2,310
T. 54 N., R. 18 W., quarter cor. between secs. 1 and 12, crossroads -----	39 30 17.0	92 52 39.2	3,980
Prim Trav Sta No 49 F 1924 (previously de- scribed) -----	39 29 34.93	92 52 41.40	4,258

5. FROM COLLEGE MOUND QUADRANGLE AT SEC. 36, T. 56 N., R. 17 W., WEST TO
SEC. 25, T. 56 N., R. 18 W. (by C. W. Williams and C. D. Craig
in 1936-37)

(Continued from College Mound quadrangle; see line 5.)

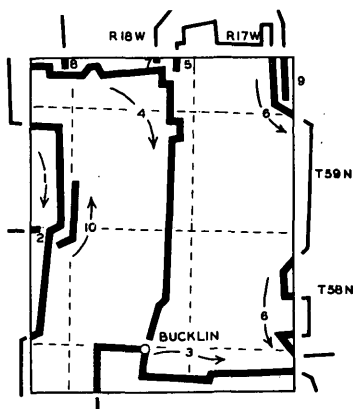
T. 56 N., R. 17 W., center sec. 36, T-rd. W. ---- Prim Trav Sta No 44 F 1924 (previously de- scribed) -----	39 37 07.5	92 45 26.3	(2,652)
T. 56 N., R. 17 W., cor. secs. 26, 27, 34, and 35, crossroads -----	39 37 07.96	92 46 33.49	5,260
T. 56 N., R. 17 W., cor. secs. 27, 28, 33, and 34, crossroads -----	39 37 34.9	92 47 06.5	3,754
T. 56 N., R. 17 W., cor. secs. 28, 29, 32, and 33, 3 ft. S. and 16 ft. E. from T-rd. W., in concrete post; standard tablet stamped "T T 12 W 1936" -----	39 37 35.7	92 48 15.0	5,358
T. 56 N., R. 17 W., cor. secs. 29, 30, 31, and 32, T-rd. S. -----	39 37 36.30	92 49 20.58	5,129
T. 56 N., R. 17 W., quarter cor. between secs. 30 and 31, T-rd. S. -----	39 37 37.9	92 50 26.1	5,285
Prim Trav Sta No 53 F 1924 (previously described)	39 37 38.4	92 51 02.7	2,701
	39 37 39.19	92 52 09.75	5,248

Magnetic declination 6° 50' E.

BUCKLIN QUADRANGLE

(Latitude 39°45'-40°00'; longitude 92°45'-93°00')

Linn and Macon Counties



1. FROM LINNEUS QUADRANGLE AT SEC. 11, T. 59 N., R. 19 W., SOUTH INTO
LINNEUS QUADRANGLE AT SEC. 35, T. 58 N., R. 19 W. (by C. R. Fisher
in 1924)

(Continued from Linneus quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 59 N., R. 19 W., cor. secs. 1, 2, 11, and 12 - T-rd. S. -----	39 57 06.3	92 58 53.8	(5,375)
T. 59 N., R. 19 W., quarter cor. between secs. 12 and 13, T-rd. W. -----	39 57 03.7	92 58 21.6	2,522
T. 59 N., R. 19 W., quarter cor. between secs. 13 and 24, crossroads -----	39 56 11.1	92 58 21.7	5,319
T. 59 N., R. 19 W., center sec. 24, 20 ft. S. and 20 ft. W. from crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 6 F 1924" -----	39 55 18.4	92 58 23.5	5,332
	39 54 51.98	92 58 24.85	2,678

*See line 10, p. 842, for new description and coordinates resulting from resetting this mark in 1936.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 59 N., R. 19 W., quarter cor. between secs. 24 and 25 -----	39 54 26.00	92 58 25.5	2,638
T. 59 N., R. 19 W., S. quarter cor. sec. 36 -----	39 52 40.7	92 58 29.4	10,648
T-rd. E. -----	39 52 19.6	92 58 29.7	2,140
T. 58 N., R. 19 W., quarter cor. between secs. 1 and 2 -----	39 52 15.6	92 59 03.2	2,644
T. 58 N., R. 19 W., quarter cor. between secs. 1 and 2, 130 ft. S. and 40 ft. W. from T-rd. S., 33 ft. SE. of church, in concrete post; standard tablet stamped "Prim Trav Sta No 7 F 1924" -----	39 52 14.26	92 59 03.71	138
T. 58 N., R. 19 W., cor. secs. 1, 2, 11, and 12, T-rd. W. -----	39 51 49.4	92 59 04.3	2,520
T-rd. W. -----	39 50 31.1	92 59 07.5	7,920
T. 58 N., R. 19 W., quarter cor. between secs. 23 and 24, 12 ft. S. and 35 ft. W. from junction of rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 6 F 1924" -----	39 49 38.02	92 59 10.04	5,379
T. 58 N., R. 19 W., cor. secs. 23, 24, 25, and 26 -----	39 49 11.8	92 59 10.7	2,650
T. 58 N., R. 19 W., cor. secs. 25, 26, 35, and 36, crossroads -----	39 48 19.3	92 59 12.9	5,321
T-rd. N. -----	39 47 53.0	92 59 14.0	2,661
St. Catharine, 75 ft. W. of sta., 50 ft. S. of SE. corner of post office, in corner of yard; iron post stamped "Prim Trav Sta No 9 F 1924 1920 Mo 802" -----	39 47 30.59	92 59 39.33	3,007

(Continued in Linneus quadrangle; see line 3.)

2. FROM LINNEUS QUADRANGLE AT SEC. 2, T. 58 N., R. 19 W., EAST TO SEC. 1, T. 58 N., R. 19 W. (by C. R. Fisher in 1924)

(Continued from Linneus quadrangle; see line 2.)

Crossroads -----	39 51 52.6	92 59 54.4	(1,330)
T-rd. W. (previously described) -----	39 51 49.4	92 59 04.3	3,917

3. FROM MARCELINE QUADRANGLE AT SEC. 17, T. 57 N., R. 18 W., NORTH AND EAST INTO ELMER QUADRANGLE AT SEC. 1, T. 57 N., R. 17 W. (by C. R. Fisher in 1924)

(Continued from Marceline quadrangle; see line 2.)

T. 57 N., R. 18 W., quarter cor. between secs. 8 and 17, crossroads -----	39 45 37.6	92 56 27.6	(5,313)
T-rd. S. -----	39 46 42.6	92 56 26.4	6,580
T. 57 N., R. 18 W., in NE 1/4 sec. 5, NE. of rd. crossing; iron post stamped "Prim Trav Sta No 36 F 1924 1920 Mo 766" -----	39 47 07.77	92 56 11.77	2,795
Bucklin, in NE. corner of schoolyard, 150 ft. S. of S. end of viaduct over R.R.; iron post stamped "Prim Trav Sta No 37 F 1924 1920 Mo 910" -----	39 46 50.73	92 53 24.99	13,135
Bucklin, intersection of Atchison, Topeka & Santa Fe Ry. and Chicago, Burlington & Quincy R.R. --	39 46 56.9	92 53 29.6	721
T. 57 N., R. 18 W., cor. secs. 2, 3, 10, and 11, T-rd. W. -----	39 46 26.4	92 53 37.7	3,143
T. 57 N., R. 18 W., cor. secs. 10, 11, 14, and 15, T-rd. N. -----	39 45 34.0	92 53 38.0	5,300
Bucklin, 1.5 mi. S., thence 1.2 mi. E. from, W. sixteenth cor. between secs. 12 and 13, T. 57 N., R. 18 W., 50 ft. N. and 35 ft. W. from crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 38 F 1924" -----	39 45 32.80	92 52 13.77	6,578
Center of wooden bridge -----	39 45 20.7	92 51 20.8	4,313
Rd. forks -----	39 45 13.9	92 50 23.4	4,540
Rd. forks -----	39 45 42.7	92 49 46.9	4,060
Lingo, 190 ft. N. of rd. crossing, 190 ft. N. and 160 ft. W. from shelter shed; iron post stamped "Prim Trav Sta No 39 F 1924 1920 Mo 817" -----	39 46 05.28	92 49 14.81	3,391
T. 57 N., R. 17 W., cor. secs. 4, 5, 8, and 9, rd. corner -----	39 46 22.2	92 49 06.5	1,830
Center of bridge -----	39 46 21.4	92 47 58.2	5,335
Rd. opposite gate -----	39 46 21.1	92 46 39.4	6,155
T. 57 N., R. 17 W., cor. secs. 1, 2, 11, and 12, T-rd. S. -----	39 46 21.4	92 45 44.1	4,320
New Cambria, Chicago, Burlington & Quincy R.R. at sta. -----	39 46 29.7	92 45 01.1	3,461
New Cambria, at E. corner of public park, 12 ft. SW. of W. corner of Jones and Main Streets; iron post stamped "Prim Trav Sta No 40 F 1924 1920 Mo 856" -----	39 46 33.44	92 45 04.98	487

(Continued in Elmer quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
4. FROM LINNEUS QUADRANGLE AT SEC. 21, T. 60 N., R. 19 W., EAST TO SEC. 25, T. 60 N., R. 18 W., THENCE SOUTH TO BUCKLIN (by C. R. Fisher in 1924)			
Prim Trav Sta No 4 F 1924 (In Linneus quadrangle; see line 1.)	39 59 52.86	93 01 01.92	.....
T. 60 N., R. 19 W., quarter cor. between secs. 23 and 26, rd. corner	39 59 46.0	92 59 20.5	7,935
T. 60 N., R. 19 W., cor. secs. 23, 24, 25, and 26, T-rd. W.	39 59 43.6	92 58 46.4	2,661
T. 60 N., R. 19 W., near center sec. 25, 45 ft. N. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 56 F 1924"	39 59 15.05	92 58 14.03	3,833
T. 60 N., Rs. 18 and 19 W., approximate quarter cor. between secs. 25 and 30, T-rd. S.	39 59 12.0	92 57 40.7	2,623
T. 60 N., R. 18 W., quarter cor. between secs. 29 and 30, T-rd. N.	39 59 14.7	92 56 37.0	4,960
T. 60 N., R. 18 W., near E. sixteenth cor. between secs. 20 and 29, 26 ft. N. and 36 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 57 F 1924"	39 59 36.34	92 55 45.03	4,814
T. 60 N., R. 18 W., cor. secs. 21, 22, 27, and 28, crossroads	39 59 35.3	92 54 20.4	6,588
T. 60 N., R. 18 W., cor. secs. 22, 23, 26, and 27, T-rd. W.	39 59 34.1	92 53 11.5	5,370
T. 60 N., R. 18 W., quarter cor. between secs. 25 and 26, 20 ft. N. and 25 ft. E. from T-rd. W., 200 ft. E. of State Highway 11, in fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 58 F 1924"	39 59 06.84	92 52 03.82	5,946
T. 60 N., R. 18 W., cor. secs. 25, 26, 35, and 36, T-rd. W.	39 58 40.2	92 52 05.0	2,690
T. 60 N., R. 18 W., S. cor. secs. 35 and 36, T-rd. N.	39 57 47.8	92 52 06.5	5,310
New Boston, in NW. corner of yard of Christian Church, 30 ft. S. of highway, in concrete post; standard tablet stamped "Prim Trav Sta No 59 F 1924"	39 57 05.46	92 51 29.25	5,168
T-rd. W.	39 56 31.8	92 51 30.2	3,412
T. 59 N., R. 18 W., cor. secs. 11, 12, 13, and 14, T-rd. W.	39 56 02.2	92 52 11.4	4,391
T. 59 N., R. 18 W., cor. secs. 13, 14, 23, and 24, 25 ft. N. and 60 ft. E. from T-rd. N., 140 ft. W. of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 60 F 1924"	39 55 10.28	92 52 12.75	5,260
T. 59 N., R. 18 W., cor. secs. 23, 24, 25, and 26	39 54 17.6	92 52 15.2	5,337
T. 59 N., R. 18 W., cor. secs. 25, 26, 35, and 36, crossroads	39 53 25.1	92 52 17.2	5,311
T. 59 N., R. 18 W., S. cor. secs. 35 and 36, 50 ft. N. and 25 ft. W. from T-rd. N., 50 ft. N. and 85 ft. W. from T-rd. S., at N. cor. secs. 1 and 2, T. 58 N., R. 18 W., in concrete post; standard tablet stamped "Prim Trav Sta No 61 F 1924"	39 52 33.30	92 52 19.26	5,248
T. 58 N., R. 18 W., cor. secs. 1, 2, 11, and 12, crossroads	39 51 41.6	92 52 20.1	5,226
T. 58 N., R. 18 W., quarter cor. between secs. 11 and 12, T-rd. N.	39 51 15.5	92 52 21.2	2,650
T-rd. W.	39 50 22.4	92 52 06.3	5,493
T. 58 N., R. 18 W., cor. secs. 13, 14, 23, and 24, 0.2 mi. W. of highway, 30 ft. N. and 15 ft. E. from rd. corner from N.-E., in concrete post; standard tablet stamped "Prim Trav Sta No 62 F 1924"	39 49 56.94	92 52 24.12	2,933
T. 58 N., R. 18 W., cor. secs. 23, 24, 25, and 26	39 49 17.1	92 52 25.7	4,037
T-rd. W.	39 48 51.3	92 52 43.8	2,963
Atchison, Topeka & Santa Fe Ry. at rd. crossing - T-rd. N.	39 47 47.1	92 52 46.4	6,501
	39 47 19.3	92 52 47.1	2,820
Prim Trav Sta No 37 F 1924 1920 Mo 910 (previously described)	39 46 50.73	92 53 24.99	4,134

5. FROM SEC. 25, T. 60 N., R. 18 W., NORTH INTO WINIGAN QUADRANGLE AT SEC. 24, T. 60 N., R. 18 W. (by C. R. Fisher in 1934-35)

Prim Trav Sta No 58 F 1924 (previously described)	39 59 06.84	92 52 03.82	.....
Rd. forks	39 59 40.1	92 52 08.0	3,381

(Continued in Winigan quadrangle; see line 3.)

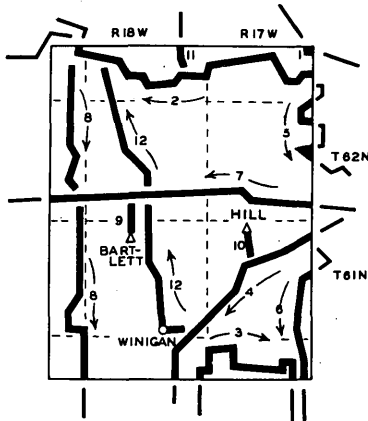
Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
6. FROM WINIGAN QUADRANGLE AT SEC. 23, T. 60 N., R. 17 W., SOUTH INTO ELMER QUADRANGLE AT NEW CAMBERIA (by C. R. Fisher in 1924) (Continued from Winigan quadrangle; see line 3.)			
Rd. forks -----	39 58 36.1	92 45 28.0	(9,302)
T. 60 N., R. 17 W., cor. secs. 25, 26, 35, and 36 (doubtful) -----	39 58 36.0	92 45 16.8	880
Tps. 59 and 60 N., R. 17 W., cor. secs. 1, 2, 35, and 36, 22 ft. N. of T-rd. S., 1 ft. inside fence, in concrete post; standard tablet stamped "Prim Trav Sta No 65 F 1924" -----	39 57 43.67	92 45 08.49	5,334
(For balance in Elmer quadrangle, see line 2.)			
T. 58 N., R. 17 W., cor. secs. 11, 12, 13, and 14 -----	39 50 43.8	92 45 34.3	(5,304)
T-rd. N. -----	39 49 24.8	92 45 03.7	8,347
(For balance in Elmer quadrangle, see line 2.)			
T-rd. N. -----	39 47 14.2	92 45 25.4	(6,395)
Prim Trav Sta No 40 F 1924 1920 Mo 856 (previously described) -----	39 46 33.44	92 45 04.98	4,422
(Continued in Elmer quadrangle; see line 2.)			
7. FROM WINIGAN QUADRANGLE SOUTH ALONG STATE HIGHWAY 11 TO SEC. 25, T. 60 N., R. 18 W. (by S. T. Tudor in 1934-35) (Continued from Winigan quadrangle; see line 4.)			
Highway at fences E. and W. -----	39 59 59.6	92 52 23.5	(2,680)
Highway at fences E. and W. on line between secs. 23 and 26, T. 60 N., R. 18 W. -----	39 59 33.7	92 52 31.9	2,702
Prim Trav Sta No 58 F 1924 (previously described) -----	39 59 06.84	92 52 03.82	3,485
8. FROM WINIGAN QUADRANGLE AT SEC. 24, T. 60 N., R. 19 W., SOUTH TO SEC. 25, T. 60 N., R. 19 W. (by S. T. Tudor in 1934-35) (Continued from Winigan quadrangle; see line 8.)			
T. 60 N., R. 19 W., quarter cor. between secs. 24 and 25, rd. at fences E. and W. -----	39 59 39.5	92 58 13.0	(5,430)
Prim Trav Sta No 56 F 1924 (previously described) -----	39 59 15.05	92 58 14.03	2,480
9. FROM WINIGAN QUADRANGLE AT SEC. 23, T. 60 N., R. 17 W., SOUTH TO SEC. 1, T. 59 N., R. 17 W. (by S. T. Tudor in 1934-35) (Continued from Winigan quadrangle; see line 6.)			
Rd. at fences E. and W. -----	39 59 54.2	92 45 13.8	(2,759)
Rd. at fences E. and W. -----	39 59 27.9	92 45 04.4	2,757
Rd. at fences E. and W. -----	39 59 02.0	92 45 12.4	2,705
T. 60 N., R. 17 W., cor. secs. 25, 26, 35, and 36, rd. at fences N. and S. -----	39 58 35.9	92 45 16.8	2,658
Rd. at fences E. and W. -----	39 58 09.6	92 45 01.3	2,927
Prim Trav Sta No 65 F 1924 (previously described) -----	39 57 43.67	92 45 08.49	2,688
10. FROM SEC. 2, T. 58 N., R. 19 W., NORTH TO SEC. 24, T. 59 N., R. 19 W. (by C. W. Williams in 1936)			
Prim Trav Sta No 7 F 1924 (previously described)- State Highway 11 at fence W. -----	39 52 14.23	92 59 03.71	.....
T. 59 N., R. 19 W., in SE 1/4 sec. 25, 70 ft. E. of State Highway 11, airway beacon -----	39 53 07.2	92 58 28.6	6,014
T. 59 N., R. 19 W., center sec. 24, 23 ft. S. and 13 ft. W. of State Highway 11, at E.-W. cross- road, in concrete post; standard tablet stamped "Prim Trav Sta No 6 F 1924" -----	39 53 52.44	92 58 25.94	4,586
	39 54 52.00	92 58 24.81	6,009

*This description and these coordinates supersede those given on line 1, p. 839.

Magnetic declination 7° 06' E.

WINIGAN QUADRANGLE
(Latitude 40°00'-40°15'; longitude 92°45'-93°00')

Adair, Linn, Macon, and Sullivan Counties



1. FROM GREEN CITY QUADRANGLE SOUTHEAST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO KIRKSVILLE QUADRANGLE (by C. B. Kendall in 1910)
(Continued from Green City quadrangle; see line 1.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
R.R. at rd. crossing, 230 ft. SE. of milepost marked "Q 81 KC 167" -----	40 15 00.0	92 45 15.5	(5,309)
(Continued in Kirksville quadrangle; see line 3.)			

2. FROM KIRKSVILLE QUADRANGLE AT SEC. 25, T. 63 N., R. 17 W., WEST INTO GREEN CITY QUADRANGLE AT SEC. 24, T. 63 N., R. 19 W. (by C. B. Kendall in 1910)

T. 63 N., Rs. 16 and 17 W., approximate cor. secs. 19, 24, 25, and 30 (in Kirksville quadrangle; see line 3.) -----	40 14 27.7	92 44 30.5	.....
T-rd. N. -----	40 13 58.3	92 45 08.8	3,984
T. 63 N., R. 17 W., in SW 1/4 sec. 25, 210 ft. S. and 25 ft. W. from State Highway 6 at rd. S., 490 ft. W. of rd. N.; iron post stamped "Prim Trav Sta No 7 1910 Mo" -----	40 13 42.25	92 45 25.37	2,072
T. 63 N., R. 17 W., cor. secs. 25, 26, 35, and 36, T-fence E. -----	40 13 34.7	92 45 42.6	1,543
Center of triangle at rd. forks -----	40 14 13.9	92 46 29.2	5,358
T. 63 N., R. 17 W., cor. secs. 22, 23, 26, and 27, stone at T-fence W., 340 ft. N. of rd. -----	40 14 27.4	92 46 50.7	2,159
T. 63 N., R. 17 W., approximate cor. secs. 21, 22, 27, and 28, cross fences -----	40 14 35.6	92 47 58.4	5,324
Union Church, NW. corner of -----	40 14 45.2	92 48 19.6	1,901
T. 63 N., R. 17 W., cor. secs. 20, 21, 28, and 29, rd. at fences N. and S., 700 ft. E. of bridge over small stream, 300 ft. SW. of dwelling -----	40 14 27.9	92 49 06.1	4,010
T. 63 N., R. 17 W., cor. secs. 19, 20, 29, and 30, rd. corner from S.-W. -----	40 14 27.6	92 50 14.2	5,283
T. 63 N., R. 17 W., quarter cor. between secs. 19 and 30, T-rd. E. -----	40 14 27.8	92 50 48.6	2,670
Crossroads -----	40 13 48.4	92 50 49.2	3,990
Rd. at Adair-Sullivan county line, 1,280 ft. N. of T-fence E. at W. cor. secs. 30 and 31, T. 63 N., R. 17 W. -----	40 13 47.8	92 51 19.1	2,319
T. 63 N., R. 18 W., S. sixteenth cor. sec. 25, 25 ft. S. and 20 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 8 1910 Mo" -----	40 13 46.83	92 51 52.82	2,616
Crossroads -----	40 13 47.0	92 51 53.1	30
Crossroads -----	40 13 46.2	92 52 26.8	2,619
T. 63 N., R. 18 W., cor. secs. 26, 27, 34, and 35, rd. at fence W. -----	40 13 33.1	92 53 35.4	5,485
T. 63 N., R. 18 W., S. sixteenth cor. between secs. 27 and 28, crossroads -----	40 13 45.8	92 54 44.0	5,464
T. 63 N., R. 18 W., quarter cor. between secs. 28 and 29, T-rd. N. at fence S. -----	40 13 57.6	92 55 52.8	5,474
T. 63 N., R. 18 W., center sec. 29, T-rd. E. -----	40 13 57.2	92 56 26.8	2,639
T. 63 N., R. 18 W., cor. secs. 19, 20, 29, and 30, crossroads -----	40 14 22.9	92 57 01.8	3,760

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 63 N., R. 18 W., W. cor. secs. 19 and 30, rd. at fence S., 90 ft. W. of bridge, about 125 ft. S. of approximate E. cor. secs. 24 and 25, T. 63 N., R. 19 W. -----	40 14 21.4	92 58 06.9	5,059
Crossroads, 420 ft. E. of bridge over Daniel Branch -----	40 14 22.4	92 58 20.1	1,025
Quincy, Omaha & Kansas City R.R. at rd. crossing- T. 63 N., R. 19 W., in SE. cor. sec. 23, 0.2 mi. W. of Yellow Creek Baptist Church, NW. of crossroads; iron post stamped "Prim Trav Sta No 9 1910 Mo" -----	40 14 22.4	92 58 32.1	940
T. 63 N., R. 19 W., cor. secs. 23, 24, 25, and 26 -----	40 14 23.20	92 59 17.91	3,551
	40 14 23.0	92 59 17.6	30

(Continued in Green City quadrangle; see line 2.)

3. FROM BUCKLIN QUADRANGLE AT SEC. 24, T. 60 N., R. 18 W., EAST INTO BUCKLIN QUADRANGLE AT SEC. 23, T. 60 N., R. 17 W. (by C. R. Fisher in 1924)

(Continued from Bucklin quadrangle; see line 5.)

T-rd. S. -----	40 01 12.3	92 51 09.6	(10,382)
Mussel Fork, center of bridge over -----	40 01 16.9	92 50 19.8	3,903
T. 60 N., R. 17 W., cor. secs. 7, 8, 17, and 18, crossroads -----	40 01 16.6	92 49 42.7	2,880
Rd. forks -----	40 00 38.8	92 49 37.7	3,846
Tullvania, about 0.2 mi. SW. of, 35 ft. S. and 30 ft. W. from rd. forks, in concrete post; standard tablet stamped "Prim Trav Sta No 63 F 1924" -----	40 00 13.71	92 48 47.18	4,679
T. 60 N., R. 17 W., cor. secs. 16, 17, 20, and 21 -----	40 00 23.3	92 48 38.6	1,175
Rd. forks -----	40 00 19.4	92 46 32.9	9,793
Goldsberry, 3.5 mi. N. of, 40 ft. N. and 20 ft. W. from rd. forks, in concrete post; standard tablet stamped "Prim Trav Sta No 64 F 1924" -----	40 00 44.27	92 45 28.23	5,627
Rd. fork E. to dwelling -----	40 00 07.4	92 45 15.0	3,868

(Continued in Bucklin quadrangle; see line 6.)

4. FROM KIRKSVILLE QUADRANGLE SOUTHWEST ALONG STATE HIGHWAY 11 INTO BUCKLIN QUADRANGLE (by S. T. Tudor in 1934-35)

(Continued from Kirksville quadrangle; see line 6.)

Crossroad -----	40 06 31.4	92 45 08.7	(3,923)
T. 61 N., R. 17 W., on line between secs. 11 and 12, 50 ft. S. of highway, 4 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 796 C W A 1934" -----	40 06 13.04	92 45 42.32	3,203
Crossroad -----	40 06 01.1	92 46 11.3	2,555
T. 61 N., R. 17 W., cor. secs. 10, 11, 14, and 15, junction of rd. N. -----	40 05 44.7	92 47 07.0	4,634
Highway at fence S. -----	40 05 44.4	92 47 44.8	2,939
T. 61 N., R. 17 W., in SW 1/4 sec. 16, 50 ft. S. and 170 ft. W. from crossroad, in concrete post; standard tablet stamped "T T 797 C W A 1934" -----	40 05 01.89	92 48 40.78	6,117
Highway at fences N. and S. -----	40 04 51.5	92 48 47.0	1,160
Highway at fence W. -----	40 03 59.3	92 49 10.0	5,570
Crossroad -----	40 03 25.6	92 49 40.7	4,167
T. 61 N., R. 17 W., in NE 1/4 sec. 31, 600 ft. NE. of bridge over Mussel Fork Creek, 90 ft. N. of highway, in concrete post; standard tablet stamped "T T 798 C W A 1934" -----	40 03 02.34	92 50 24.52	4,141
T. 61 N., Rs. 17 and 18 W., approximate S. sixteenth cor. between secs. 31 and 36, junction of rd. S. -----	40 02 29.6	92 51 22.0	5,565
Highway at fences E. and W. about 350 ft. E. of S. quarter cor. sec. 36, T. 61 N., R. 18 W. ---	40 02 13.6	92 51 51.1	2,777
Highway at fence E. -----	40 01 42.8	92 52 05.1	3,305
T. 60 N., R. 18 W., E. sixteenth cor. between secs. 11 and 14, 30 ft. S. and 40 ft. E. from junction of County Route AA and rd. E., in concrete post; standard tablet stamped "T T 799 C W A 1934" -----	40 01 17.99	92 52 16.27	2,659
Highway at fence W. -----	40 00 52.2	92 52 17.9	2,616
Highway at fence W. -----	40 00 25.8	92 52 18.6	2,670

(Continued in Bucklin quadrangle; see line 7.)

* It was reported by D. R. Stewart, Oct. 15, 1936, that this monument was reset 3 ft. N. and 4 ft. W. from described location and position. This mark was also used by E. L. McHair in 1913.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
5. FROM KIRKSVILLE QUADRANGLE AT SEC. 1, T. 62 N., R. 17 W., SOUTH INTO KIRKSVILLE QUADRANGLE AT SEC. 13, T. 62 N., R. 17 W. (by S. T. Tudor in 1934-35) (Continued from Kirksville quadrangle; see line 8.)			
T. 62 N., R. 17 W., center sec. 1, rd. fork W. --	40 12 14.3	92 45 11.0	(3,278)
Rd. fork SW. -----	40 11 53.8	92 45 07.9	2,094
(For balance in Kirksville quadrangle, see line 8.)			
T. 62 N., R. 17 W., in SW 1/4 sec. 13, 0.8 mi. E. and 0.5 mi. N. from Pure Air, 35 ft. N. and 50 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1543 E R A 1935" -	40 10 29.15	92 45 24.11	(3,303)
(Continued in Kirksville quadrangle; see line 8.)			
6. FROM KIRKSVILLE QUADRANGLE AT SEC. 24, T. 61 N., R. 17 W., SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 23, T. 60 N., R. 17 W. (by S. T. Tudor in 1934-35) (Continued from Kirksville quadrangle; see line 9.)			
Rd. at fence W. -----	40 03 34.0	92 45 21.1	(8,718)
Little Walnut Creek, center of bridge over -----	40 03 12.4	92 45 19.1	2,190
T. 61 N., R. 17 W., in W 1/2 sec. 36, 40 ft. S. and 35 ft. E. from junction of abandoned rd. E., in concrete post; standard tablet stamped "T T 1545 E R A 1935" -----	40 02 43.67	92 45 33.81	3,125
T-rd. S. -----	40 02 19.5	92 45 24.0	2,558
T-rd. E. at fence W. -----	40 01 25.9	92 45 26.4	5,434
T-rd. E. -----	40 01 13.0	92 45 27.0	1,306
T. 60 N., R. 17 W., about 0.2 mi. W. of cor. secs. 13, 14, 23, and 24, 6 ft. S. and 25 ft. E. from N.-S. rd. at fence, in concrete post; standard tablet stamped "T T 1546 E R A 1935" -	40 00 20.27	92 45 23.98	5,340
(Continued in Bucklin quadrangle; see line 9.)			
7. FROM KIRKSVILLE QUADRANGLE AT SEC. 36, T. 62 N., R. 17 W., WEST INTO MILAN QUADRANGLE AT SEC. 26, T. 62 N., R. 19 W. (by S. T. Tudor in 1934-35) (Continued from Kirksville quadrangle; see line 7.)			
Rd. fork NW. -----	40 07 42.2	92 45 15.3	(3,406)
T. 62 N., R. 17 W., in NE 1/4 sec. 35, 40 ft. N. and 25 ft. E. from rd. forks, 20 ft. S. of Pratt Cemetery, in concrete post; standard tablet stamped "T T 1555 E R A 1935" -----	40 08 10.72	92 45 47.67	3,829
T-rd. E. -----	40 07 51.3	92 46 45.6	4,912
Rd. forks at produced corner of fences -----	40 08 08.8	92 47 27.0	3,673
Crossroads -----	40 08 05.2	92 48 00.6	2,636
Rd. at fence N. -----	40 08 12.7	92 48 35.0	2,768
T. 62 N., R. 17 W., 665 ft. N. of cor. secs. 28, 29, 32, and 33, 150 ft. N. and 35 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1556 E R A 1935" -----	40 08 28.60	92 49 08.56	3,065
T-rd. E. -----	40 08 48.3	92 49 43.1	3,342
Rd. at fences N. and S. -----	40 08 28.7	92 50 53.4	5,802
T. 62 N., Rs. 17 and 18 W., approximate cor. secs. 25, 30, 31, and 36, T-rd. W. -----	40 06 21.3	92 51 20.7	2,251
T. 62 N., R. 18 W., cor. secs. 25, 26, 35, and 36, 95 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 1557 E R A 1935" -----	40 08 19.21	92 52 28.50	5,266
T. 62 N., R. 18 W., cor. secs. 26, 27, 34, and 35, rd. at fence S. -----	40 08 19.6	92 53 37.7	5,370
Crossroads -----	40 08 18.9	92 54 11.4	2,620
T. 62 N., R. 18 W., quarter cor. between secs. 28 and 33, 22 ft. N. and 36 ft. W. from County Route A at crossroad, in concrete post; standard tablet stamped "T T 1558 E R A 1935" -----	40 08 18.18	92 55 20.34	5,354
Crossroads -----	40 08 17.6	92 56 28.1	5,267
T. 62 N., R. 18 W., cor. secs. 29, 30, 31, and 32, rd. at fences N. and S. -----	40 08 17.2	92 57 02.3	2,650
T. 62 N., Rs. 18 and 19 W., approximate cor. secs. 25, 30, 31, and 36, rd. at fence S. -----	40 08 15.4	92 58 08.6	5,159
Owasco, quarter cor. between secs. 25 and 36, T. 62 N., R. 19 W., 25 ft. N. and 56 ft. E. from T-rd. N., in concrete post; standard tablet stamped "1559 E R A 1935" -----	40 08 16.86	92 58 41.65	2,569
T. 62 N., R. 19 W., cor. secs. 25, 26, 35, and 36, T-rd. S. -----	40 08 17.1	92 59 16.4	2,694
T-rd. E. -----	40 08 17.2	92 59 50.5	2,646
(Continued in Milan quadrangle; see line 5.)			

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
8. FROM SEC. 23, T. 63 N., R. 19 W., SOUTH INTO BUCKLIN QUADRANGLE AT SEC. 24, T. 60 N., R. 19 W. (by S. T. Tudor in 1934-35)			
Prim Trav Sta No 9 1910 Mo (previously described)	40 14 23.20	92 59 17.91	.....
T. 63 N., R. 19 W., cor. secs. 25, 26, 35, and 36, rd. at fence W. -----	40 13 30.8	92 59 18.0	5,302
T. 63 N., R. 19 W., S. cor. secs. 35 and 36, T-rd. W. -----	40 12 38.5	92 59 16.7	5,287
T-rd. W. -----	40 12 11.5	92 59 17.2	2,735
T. 62 N., R. 19 W., quarter cor. between secs. 11 and 12, 270 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 1560 E R A 1935" -----	40 11 16.60	92 59 16.57	5,549
T. 62 N., R. 19 W., quarter cor. between secs. 13 and 14, stone in rd. at fence E. -----	40 10 27.0	92 59 16.5	5,021
Crossroads -----	40 09 31.8	92 59 16.6	5,580
T. 62 N., R. 19 W., cor. secs. 23, 24, 25, and 26, stone at rd. corner from N.-E. -----	40 09 08.9	92 59 16.5	2,314
Rd. corner from N.-E. -----	40 08 55.7	92 58 59.5	1,872
1559 E R A 1935 (previously described) -----	40 08 16.86	92 58 41.65	4,159
Rd. at fence W. -----	40 07 24.2	92 58 41.5	5,333
Rd. at fence W. -----	40 06 31.9	92 58 42.7	5,289
T-rd. E. -----	40 06 09.2	92 58 42.6	2,300
T. 61 N., R. 19 W., near quarter cor. between secs. 12 and 13, 30 (? 80) ft. S. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "T T 1561 E R A 1935" -----	40 05 39.48	92 58 37.24	3,034
Rd. at fences E. and W. -----	40 05 13.8	92 58 43.0	2,635
T-rd. E. -----	40 04 21.8	92 58 35.3	5,303
Rd. at fence -----	40 03 29.5	92 58 33.3	5,288
T. 61 N., R. 19 W., cor. secs. 25, 26, 35, and 36, 27 ft. N. and 21 ft. E. from crossroads, in concrete post; standard tablet stamped "1562 E R A 1935" -----	40 03 03.90	92 59 17.47	4,307
T. 61 N., R. 19 W., S. cor. secs. 35 and 36, rd. corner from N.-E. -----	40 02 11.5	92 59 16.4	5,305
T. 61 N., Rs. 18 and 19 W., S. cor. secs. 31 and 36, T-rd. N. -----	40 02 11.2	92 58 10.4	5,290
T. 60 N., R. 19 W., quarter cor. between secs. 12 and 13, rd. at fence W. -----	40 01 25.7	92 58 07.8	4,607
T-rd. E. -----	40 00 33.2	92 58 10.5	5,320

(Continued in Bucklin quadrangle; see line 6.)

9. FROM SEC. 9, T. 61 N., R. 16 W., NORTH TO SEC. 28, T. 62 N., R. 18 W. (by C. W. Williams in 1936)

Bartlett triangulation sta.; U.S.C. & G.S. standard disk stamped "Bartlett 1934" -----	40 06 30.74	92 55 13.92	.....
T. 62 N., R. 16 W., S. quarter cor. sec. 33, E.-W. rd. at State Highway 129 N. produced -----	40 07 25.9	92 55 20.1	5,604
T T 1558 E R A 1935 (previously described) -----	40 06 16.18	92 55 20.34	5,287

10. FROM SEC. 4, T. 61 N., R. 17 W., SOUTH TO SEC. 16, T. 61 N., R. 17 W. (by C. W. Williams in 1936)

Hill triangulation sta.; U.S.C. & G.S. standard disk stamped "Hill 1934" -----	40 06 36.96	92 48 49.34	.....
T-rd. W. -----	40 06 00.1	92 49 09.9	4,054
797 C W A 1934 (previously described) -----	40 05 01.89	92 48 40.78	6,312

11. FROM GREEN CITY QUADRANGLE AT SEC. 23, T. 63 N., R. 18 W., SOUTHEAST TO SEC. 25, T. 63 N., R. 18 W. (by C. W. Williams in 1936)
(Continued from Green City quadrangle; see line 7.)

T. 63 N., R. 18 W., cor. secs. 23, 24, 25, and 26, rd. corner from N.-W. -----	40 14 26.4	92 52 26.7	(5,244)
Prim Trav Sta No 8 1910 Mo (previously described) -----	40 13 46.83	92 51 52.82	4,695

12. FROM SEC. 36, T. 61 N., R. 18 W., WEST TO WINIGAN, THENCE NORTH ALONG STATE HIGHWAY 129 TO SEC. 19, T. 63 N., R. 18 W. (fourth-order traverse by State Highway Department in 1954)

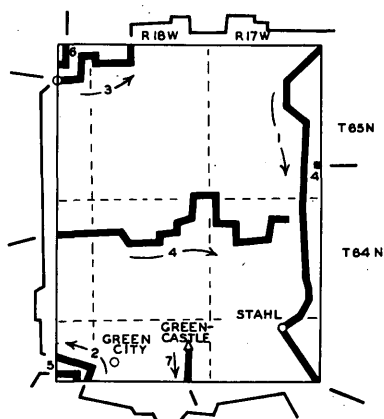
Highway at fences E. and W. (previously described) -----	40 02 13.6	92 51 51.1	.....
State Highway 11 at crossroad -----	40 02 12.5	92 51 53.2	204
T. 61 N., R. 18 W., S. cor. secs. 35 and 36, on Linn-Sullivan county line -----	40 02 13.3	92 52 23.0	2,316

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. N. near S. quarter cor. sec. 35, T. 61 N., R. 18 W., on Linn-Sullivan county line -----	40 02 12.6	92 53 03.7	3,170
Crossroads on S. line sec. 34, T. 61 N., R. 18 W., on Linn-Sullivan county line -----	40 02 11.9	92 53 58.5	4,265
Winigan, intersection of street E. -----	40 02 43.4	92 54 11.7	3,350
T. 61 N., R. 18 W., quarter cor. between secs. 27 and 34, crossroad -----	40 03 04.0	92 54 11.4	2,091
T. 61 N., R. 18 W., center sec. 27, crossroad -----	40 03 30.1	92 54 11.2	2,638
T. 61 N., R. 18 W., quarter cor. between secs. 22 and 27, highway at fences E. and W. -----	40 03 56.3	92 54 10.7	2,648
Junction of rd. W. -----	40 04 22.3	92 54 21.7	2,772
Rd. fork W., 97 ft. W. of highway -----	40 04 35.6	92 54 43.7	2,177
Junction of rd. N., 670 ft. N. of cor. secs. 15, 16, 21, and 22, T. 61 N., R. 18 W. -----	40 04 55.4	92 54 43.2	2,000
Junction of rd. S. -----	40 05 21.4	92 55 16.0	3,660
T. 61 N., R. 18 W., quarter cor. between secs. 9 and 16, crossroad -----	40 05 40.6	92 55 15.4	1,948
T. 61 N., R. 18 W., center sec. 9, highway at fence E. -----	40 06 06.5	92 55 14.9	2,622
T. 61 N., R. 18 W., quarter cor. between secs. 4 and 9, junction of rd. E. -----	40 06 32.6	92 55 14.3	2,640
T. 61 N., R. 18 W., center sec. 4, highway at fence E. -----	40 06 58.6	92 55 13.9	2,630
Crossroad on line between secs. 4 and 33, Tps. 61 and 62 N., R. 18 W. -----	40 07 25.8	92 55 17.0	2,763
T. 62 N., R. 18 W., center sec. 33, highway at fences E. and W. -----	40 07 51.8	92 55 20.2	2,642
T T 1558 E R A 1935 (previously described) -----	40 08 18.18	92 55 20.34	2,670
T. 62 N., R. 18 W., center sec. 28, old rd. at fences E. and W., 25 ft. E. of highway -----	40 08 44.2	92 55 19.2	2,636
T. 62 N., R. 18 W., cor. secs. 20, 21, 28, and 29, old rd. at fences E. and W., 250 ft. W. of highway -----	40 09 10.1	92 55 52.9	3,702
T. 62 N., R. 18 W., quarter cor. between secs. 20 and 21, highway at fences E. and W. -----	40 09 36.2	92 55 52.5	2,642
T. 62 N., R. 18 W., cor. secs. 16, 17, 20, and 21, highway at fence W. -----	40 10 02.7	92 55 52.1	2,678
T. 62 N., R. 18 W., quarter cor. between secs. 16 and 17, crossroad -----	40 10 28.8	92 55 51.8	2,647
T. 62 N., R. 18 W., cor. secs. 8, 9, 16, and 17, highway at fence E. (N. of rd. E.) and hedge fence W. -----	40 10 55.0	92 55 52.0	2,650
T. 62 N., R. 18 W., quarter cor. between secs. 8 and 9, T-rd. W., 255 ft. E. of highway -----	40 11 21.2	92 55 51.5	2,645
Little Yellow Creek, W. end of bridge over -----	40 11 31.5	92 56 15.0	2,102
Junction of rd. S. -----	40 11 47.0	92 56 40.8	2,542
Highway at fence W. -----	40 12 13.4	92 56 40.9	2,682
E.-W. rd. at point 15 ft. W. of highway, on line between secs. 5 and 32, Tps. 62 and 63 N., R. 18 W. -----	40 12 38.8	92 56 43.3	2,571
Junction of rd. N. -----	40 13 07.3	92 56 43.5	2,882
Crossroad -----	40 13 17.4	92 56 53.8	1,295
T. 63 N., R. 18 W., cor. secs. 29, 30, 31, and 32, highway at fences E. and W. -----	40 13 30.4	92 57 00.9	1,429
T. 63 N., R. 18 W., quarter cor. between secs. 29 and 30, highway at fence E. -----	40 13 56.6	92 57 01.3	2,654
Crossroads (previously described) -----	40 14 22.8	92 57 01.7	2,650

Magnetic declination 7° 22' E.

GREEN CITY QUADRANGLE
(Latitude 40°15'-40°30'; longitude 92°45'-93°00')

Adair, Putnam, and Sullivan Counties



1. FROM QUEEN CITY QUADRANGLE AT SEC. 25, T. 66 N., R. 17 W., SOUTHWEST TO STAHL, THENCE SOUTHEAST ALONG QUINCY, OMAHA & KANSAS CITY RAILROAD INTO WINIGAN QUADRANGLE (by C. B. Kendall in 1910)
(Continued from Moulton quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
Mail boxes in triangle at T-rd. N. -----	40 29 43.6	92 45 26.6	Feet (4,359)
Glendale, T-rd. S. -----	40 29 12.6	92 45 59.7	4,050
T. 66 N., R. 17 W., cor. secs. 25, 26, 35, and 36, 5 ft. N. and 25 ft. W. from T-rd. S. -----	40 29 12.6	92 46 00.0	25
T. 66 N., R. 17 W., N. sixteenth cor. sec. 35, T-rd. S. -----	40 26 59.6	92 46 34.2	2,954
T. 66 N., R. 17 W., S. quarter cor. sec. 35, stone at fence post near NE. corner of garden near top of hill -----	40 28 20.4	92 46 33.9	3,960
Graysville, T-rd. N., 150 ft. NE. of schoolhouse Junction of dim rd. N. -----	40 26 45.7	92 46 38.5	9,635
T. 65 N., R. 17 W., cor. secs. 11, 12, 13, and 14, T-fence E. -----	40 26 51.8	92 45 47.4	4,181
T. 65 N., R. 17 W., quarter cor. between secs. 13 and 14, T-rd. E. -----	40 26 39.5	92 45 47.4	773
T. 65 N., R. 17 W., cor. secs. 13, 14, 23, and 24, stone at center of crossroads -----	40 26 13.2	92 45 47.2	2,660
T. 65 N., R. 17 W., cor. secs. 23, 24, 25, and 26, rd. at fence E. -----	40 25 46.9	92 45 47.1	2,660
T-rd. N., 0.2 mi. E. of Martinstown -----	40 24 54.7	92 45 46.6	5,280
T. 65 N., R. 17 W., cor. secs. 25, 26, 35, and 36, T-fence E. -----	40 24 34.4	92 45 51.6	2,091
T. 65 N., R. 17 W., quarter cor. between secs. 35 and 36, 5 ft. S. of T-rd. N. -----	40 24 02.2	92 45 45.8	3,298
Rd. at fence on top of hill, 780 ft. N. of rd. corner -----	40 23 35.5	92 45 45.5	2,700
T. 64 N., R. 17 W., E. sixteenth cor. between secs. 2 and 11, NE. of T-rd. W., 440 ft. S. of bridge over Blackbird Creek; iron post stamped "Prim Trav Sta No 5 1910 Mo" -----	40 23 09.7	92 46 01.0	2,879
T-rd. S., 150 ft. E. of rd. corner from N-E. -----	40 22 17.16	92 46 01.20	5,315
Rd. forks -----	40 21 37.5	92 45 59.9	4,017
Rd. at Adair-Putnam county line -----	40 20 58.7	92 46 09.1	3,989
T. 64 N., R. 17 W., cor. secs. 13, 14, 23, and 24 -----	40 20 32.4	92 45 39.6	3,506
Junction of dim rd. E. -----	40 20 32.4	92 45 45.8	480
Shibleys Point, T-rd. N., 125 ft. NW. of store -----	40 19 33.3	92 45 26.2	6,167
T-rd. E., 300 ft. W. of bridge over Shuteye Creek -----	40 18 47.9	92 45 38.6	4,702
Rd. forks, 1 mi. NE. of Stahl -----	40 18 51.4	92 46 07.2	2,248
Rd. at fences E. and W. on line between secs. 2 and 35, Tps. 63 and 64 N., R. 17 W., 870 ft. NE. of rd. fork SW. -----	40 16 01.6	92 46 13.1	5,052
Rd. forks N. and NE. at top of hill -----	40 17 55.4	92 46 25.2	1,129
Stahl, main track of R.R. at point 100 ft. NW. of sta. -----	40 17 43.0	92 46 53.5	2,529
R.R. at rd. crossing, 1 mi. SE. of Stahl -----	40 17 21.2	92 47 23.7	3,220
R.R. at rd. crossing on line between secs. 11 and 14, T. 63 N., R. 17 W., 910 ft. SE. of bridge over Spring Creek -----	40 16 36.6	92 46 28.1	6,233
	40 16 12.1	92 46 09.3	2,882

* In 1932 it was reported that this mark was moved 11 ft. N. and 12 ft. E. of its original location. The description and coordinates given refer to the new position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 63 N., R. 17 W., quarter cor. between secs. 13 and 14, 50 ft. NW. of R.R. at rd. crossing ----	40 15 46.4	92 45 47.6	3,096
R.R. at rd. crossing, 230 ft. SE. of milepost marked "Q 61 KC 167" -----	40 15 00.0	92 45 15.5	5,309

(Continued in Winigan quadrangle; see line 1.)

2. FROM WINIGAN QUADRANGLE AT SEC. 24, T. 63 N., R. 19 W., NORTHWEST INTO BOYNTON QUADRANGLE AT SEC. 14, T. 63 N., R. 19 W. (by C. B. Kendall in 1910)

(Continued from Winigan quadrangle; see line 2.)

T. 63 N., R. 19 W., W. sixteenth cor. between secs. 13 and 24, crossroads -----	40 15 15.0	92 59 00.9	(5,425)
T. 63 N., R. 19 W., W. sixteenth cor. sec. 13, crossroads -----	40 15 41.1	92 59 01.0	2,640

(Continued in Boynton quadrangle; see line 1.)

3. FROM BOYNTON QUADRANGLE AT UNIONVILLE NORTHEAST INTO CENTERVILLE QUADRANGLE AT SEC. 28, T. 66 N., R. 18 W. (by C. B. Kendall in 1910)

(Continued from Boynton quadrangle; see line 1.)

Unionville, stone at intersection of Tenth and Garfield Streets -----	40 28 20.1	92 59 41.2	(2,783)
Highest one of grove of trees just W. of dwelling of W. O. Robbins -----	40 29 37.8	92 59 34.5	7,680
T. 66 N., Rs. 18 and 19 W., approximate cor. secs. 25, 30, 31, and 36, T-rd. E. -----	40 29 12.5	92 58 32.4	5,439
T. 66 N., R. 18 W., quarter cor. between secs. 30 and 31, stone in center of rd., 120 ft. E. of bridge -----	40 29 12.6	92 57 58.4	2,630
T. 66 N., R. 18 W., cor. secs. 29, 30, 31, and 32, rd. at fence N. -----	40 29 12.4	92 57 24.3	2,639
T. 66 N., R. 18 W., W. sixteenth cor. between secs. 29 and 32, T-rd. N. -----	40 29 12.5	92 57 07.2	1,320
T. 66 N., R. 18 W., cor. secs. 28, 29, 32, and 33, stone about 5 ft. SW. of crossroads -----	40 29 12.3	92 56 15.8	3,973
T. 66 N., R. 18 W., N. sixteenth cor. between secs. 28 and 29, T-rd. W. -----	40 29 51.4	92 56 16.2	3,957

(Continued in Centerville quadrangle; see line 1.)

4. FROM BOYNTON QUADRANGLE AT SEC. 11, T. 64 N., R. 19 W., EAST INTO QUEEN CITY QUADRANGLE AT SEC. 25, T. 65 N., R. 17 W. (by C. B. Kendall in 1910)

Prim Trav Sta No 10 1910 Mo (In Boynton quadrangle; see line 1.) -----	40 21 48.40	93 00 23.77	.....
T. 64 N., R. 19 W., quarter cor. between secs. 11 and 12, crossroads -----	40 21 47.4	92 59 15.2	5,309
T. 64 N., Rs. 18 and 19 W., approximate quarter cor. between secs. 7 and 12, T-rd. W. -----	40 21 47.2	92 58 05.6	5,390
T. 64 N., R. 18 W., quarter cor. between secs. 7 and 8, stone in center of rd. at fences N. and S. -----	40 21 46.5	92 56 58.1	5,229
Pennville, crossroads at -----	40 21 46.4	92 56 42.0	1,245
Center of triangle at rd. forks -----	40 21 11.3	92 55 39.5	6,006
Rd. at fences N. and S. -----	40 21 19.1	92 54 43.6	4,401
T-rd. S. on line between secs. 10 and 11, T. 64 N., R. 18 W. -----	40 21 54.8	92 53 35.4	6,396
T. 64 N., R. 18 W., quarter cor. between secs. 10 and 11, stone in center of rd. at fences E. and W. -----	40 21 48.2	92 53 35.4	660
T. 64 N., R. 18 W., N. sixteenth cor. sec. 11, 20 ft. S. of stone at T-rd. N., 400 ft. E. of Thompson School; iron post stamped "Prim Trav Sta No 14 Mo 1910" -----	40 22 02.44	92 53 01.18	3,014
T. 64 N., R. 18 W., N. sixteenth cor. sec. 11, stone at T-rd. N. -----	40 22 02.6	92 53 01.2	20
T. 64 N., R. 18 W., N. sixteenth cor. between secs. 11 and 12, crossroads -----	40 22 03.4	92 52 26.9	2,659
T. 64 N., R. 16 W., cor. secs. 1, 2, 11, and 12, rd. at fences E. and W. -----	40 22 16.5	92 52 26.9	1,330
Tps. 64 and 65 N., R. 18 W., approximate cor. secs. 1, 2, 35, and 36, crossroads on Putnam-Sullivan county line -----	40 23 09.6	92 52 26.1	5,371
Rd. at line between secs. 1 and 6, T. 64 N., Rs. 17 and 18 W., on Putnam-Sullivan county line --	40 22 46.6	92 51 17.4	5,803
T-rd. N. -----	40 22 44.4	92 51 10.6	570
T. 64 N., R. 17 W., cor. secs. 5, 6, 7, and 8, stone at corner of fence S. and rail fence W. -	40 22 18.2	92 50 16.1	4,991

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. S. -----	40 22 13.9	92 49 58.8	1,402
Center of triangle at T-rd. W. -----	40 22 12.9	92 49 44.1	1,150
Sidney, center of triangle at rd. forks -----	40 21 14.5	92 49 03.9	6,670
T-rd. S. on line between secs. 15 and 16, T. 64 N., R. 17 W. -----	40 21 13.1	92 47 59.8	4,972
T-rd. W., 0.2 mi. E. of cor. secs. 9, 10, 15, and 16, T. 64 N., R. 17 W. -----	40 21 24.4	92 47 40.2	1,897
Crossroads -----	40 22 16.2	92 47 38.0	5,252
T. 64 N., R. 17 W., cor. secs. 3, 4, 9, and 10, rd. at fences N. and S. -----	40 22 16.0	92 47 58.9	1,620
T. 64 N., R. 17 W., cor. secs. 2, 3, 10, and 11, rd. at fences N. and S. -----	40 22 16.6	92 46 50.7	5,280
Prim Trav Sta No 5 1910 Mo (previously described) -----	40 22 17.16	92 46 01.20	3,824
T-rd. N. (previously described) -----	40 24 41.0	92 45 07.8	3,453
Wildcat Creek, center of bridge over -----			

(Continued in Queen City quadrangle; see line 3.)

5. FROM BOYNTON QUADRANGLE AT SEC. 23, T. 63 N., R. 19 W., SOUTHEAST INTO WINIGAN QUADRANGLE AT SEC. 24, T. 63 N., R. 19 W. (by E. L. McNair in 1913)

(Continued from Boynton quadrangle; see line 2.)

Center of small bridge over creek -----	40 15 06.7	92 59 58.3	(3,635)
Prim Trav Sta No 9 1910 Mo (In Winigan quadrangle; see line 2.) -----	40 14 23.20	92 59 17.91	5,402

6. FROM CENTERVILLE QUADRANGLE AT SEC. 26, T. 66 N., R. 19 W., SOUTHWEST INTO BOYNTON QUADRANGLE AT UNIONVILLE (by E. L. McNair in 1923)

(Continued from Centerville quadrangle; see line 2.)

Junction of lane E. -----	40 29 37.3	92 59 41.7	(5,423)
Chicago, Burlington & Quincy R.R. at rd. crossing -----	40 28 54.1	92 59 43.7	4,372
Prim Trav Sta No 11 1910 Mo (In Boynton quadrangle; see line 1.) -----	40 28 36.55	93 00 09.97	2,702

7. FROM GREEN CASTLE SOUTH INTO WINIGAN QUADRANGLE AT SEC. 23, T. 63 N., R. 18 W. (by C. W. Williams in 1936)

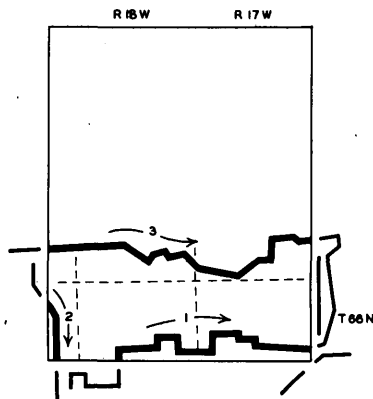
Green Castle triangulation sta.; U.S.C. & G.S. standard disk stamped "Green Castle 1934" -----	40 15 32.06	92 52 43.53	.....
T. 63 N., R. 18 W., cor. secs. 13, 14, 23, and 24, rd. corner from W.-S. -----	40 15 17.2	92 52 26.8	1,985

(Continued in Winigan quadrangle; see line 11.)

Magnetic declination in 1912, 7° 45' E.

CENTERVILLE QUADRANGLE #
(Latitude 40°30'-40°45'; longitude 92°45'-93°00')

Putnam County



1. FROM GREEN CITY QUADRANGLE AT SEC. 26, T. 66 N., R. 18 W., EAST INTO MOULTON QUADRANGLE AT SEC. 13, T. 66 N., R. 17 W. (by C. B. Kendall in 1910)

(Continued from Green City quadrangle; see line 3.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 66 N., R. 18 W., cor. secs. 20, 21, 28, and 29, rd. at fence E. -----	40 30 06.8	92 56 16.4	(1,559)
T. 66 N., R. 18 W., cor. secs. 16, 17, 20, and 21, crossroads -----	40 30 56.3	92 56 16.6	5,007
T. 66 N., R. 18 W., quarter cor. between secs. 16 and 21, T-rd. N. -----	40 30 56.2	92 55 42.4	2,643
T. 66 N., R. 18 W., cor. secs. 15, 16, 21, and 22, rd. at fences N. and S. -----	40 30 56.2	92 55 08.0	2,660
T. 66 N., R. 18 W., quarter cor. between secs. 15 and 22, T-rd. S. -----	40 30 56.2	92 54 33.7	2,650
T. 66 N., R. 18 W., cor. secs. 14, 15, 22, and 23, stone in center of rd. at fences N. and S. -----	40 30 56.1	92 53 58.9	2,690
T. 66 N., R. 18 W., cor. secs. 13, 14, 23, and 24 -----	40 30 56.3	92 52 50.1	5,314
T. 66 N., R. 18 W., near center of SW 1/4 sec. 13, 20 ft. S. and 15 ft. E. from T-rd. S.; iron post stamped "Prlm Trav Sta No 12 1910 Mo" -----	40 31 13.81	92 52 32.87	2,216
T. 66 N., R. 18 W., quarter cor. between secs. 13 and 24, stone in center of rd. at fence N. -----	40 30 56.6	92 52 15.7	2,187
T. 66 N., Rs. 17 and 18 W., E. cor. secs. 13 and 24, rd. at fence W. -----	40 30 56.7	92 51 41.6	2,640
T. 66 N., Rs. 17 and 18 W., W. cor. secs. 18 and 19 -----	40 30 56.6	92 51 41.6	25
Rd. forks -----	40 30 56.6	92 50 36.1	5,060
T. 66 N., R. 17 W., cor. secs. 17, 18, 19, and 20, rd. at fences N. and S. -----	40 30 56.6	92 50 32.2	300
Rd. forks at W. end of bridge over Shoal Creek at Petty's mill -----	40 31 37.8	92 50 06.9	4,605
Center of bridge over Shoal Creek at Petty's mill -----	40 31 38.4	92 50 05.8	110
T. 66 N., R. 17 W., cor. secs. 8, 9, 16, and 17, T-rd. E. -----	40 31 49.0	92 49 25.8	3,270
T. 66 N., R. 17 W., cor. secs. 9, 10, 15, and 16, stone at cross fences -----	40 31 49.2	92 48 17.4	5,286
Omaha, crossroads at -----	40 31 57.4	92 48 01.6	1,476
T-rd. E. -----	40 30 56.9	92 47 24.1	6,767
T-rd. N. -----	40 30 57.0	92 46 51.2	2,540
T. 66 N., R. 17 W., cor. secs. 13, 14, 23, and 24, T-rd. W. -----	40 30 57.2	92 46 00.7	3,909
T-rd. W. -----	40 30 52.6	92 45 43.4	1,410

(Continued in Moulton quadrangle; see line 3.)

* The greater part of this quadrangle lies in Iowa.

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet

2. FROM SEYMOUR QUADRANGLE AT SEC. 2, T. 66 N., R. 19 W., SOUTH INTO GREEN CITY QUADRANGLE AT SEC. 26, T. 66 N., R. 19 W. (by E. L. McNair in 1923)

(Continued from Seymour quadrangle; see line 1.)

Tps. 66 and 67 N., R. 19 W., approximate cor. -----	40 33 33.0	92 59 42.5	(2,580)
T. 66 N., R. 19 W., quarter cor. between secs. 1 and 2, T-rd. E. -----	40 33 07.1	92 59 42.5	2,620
T. 66 N., R. 19 W., quarter cor. between secs. 11 and 12, T-rd. E. -----	40 32 15.1	92 59 42.4	5,270
T-rd. W. -----	40 31 35.9	92 59 42.2	3,960
T-rd. E. -----	40 31 10.0	92 59 42.1	2,620
T. 66 N., R. 19 W., quarter cor. between secs. 23 and 24, T-rd. E. -----	40 30 30.9	92 59 42.1	3,960

(Continued in Green City quadrangle; see line 6.)

3. FROM SEYMOUR QUADRANGLE AT SEC. 26, T. 67 N., R. 19 W., EAST INTO MOULTON QUADRANGLE AT SEC. 24, T. 67 N., R. 17 W. (by J. J. Beinlich in 1936)

(Continued from Seymour quadrangle; see line 5.)

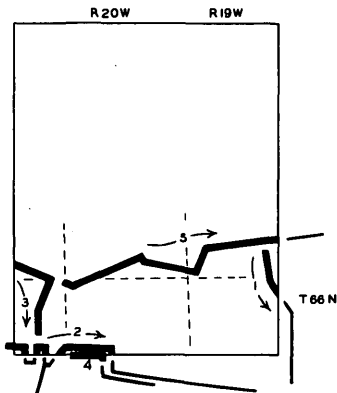
T. 67 N., R. 19 W., N. quarter cor. sec. 25, T-rd. S. on Iowa-Mo. State line -----	40 35 13.0	92 59 07.7	(4,341)
T. 67 N., R. 18 W., S. quarter cor. sec. 19, T-rd. N. on Iowa-Mo. State line -----	40 35 13.9	92 58 18.5	3,794
T. 67 N., R. 18 W., N. cor. secs. 29 and 30, T-rd. S. (produced) on Iowa-Mo. State line -----	40 35 14.7	92 57 23.5	4,245
T. 67 N., R. 18 W., S. cor. secs. 20 and 21, on Iowa-Mo. State line, 55 ft. N. and 20 ft. E. from rd. corner from N.-W. and dim rd. E., in concrete post; standard tablet stamped "T T 66 J J 1936" -----	40 35 16.11	92 56 35.10	3,735
Rd. at fences N. and S. -----	40 34 52.1	92 55 39.6	4,919
Chicago, Burlington & Quincy R.R. at rd. crossing T. 67 N., R. 18 W., in NE 1/4 sec. 27, about 0.7 mi. NE. of Chicago, Burlington & Quincy R.R. stat. at Mendota, 28 ft. N. of rd. fork SW., in concrete post; standard tablet stamped "T T 67 J J 1936" -----	40 34 52.3	92 54 26.6	5,637
T-rd. E. -----	40 35 02.59	92 54 00.21	2,263
Rd. at fences N. and S. on line between secs. 25 and 26, T. 67 N., R. 18 W. -----	40 34 31.1	92 53 41.8	3,489
T-rd. N. -----	40 34 42.9	92 52 49.4	4,219
T. 67 N., R. 17 W., in NW 1/4 sec. 31, 12 ft. N. and 31 ft. E. from rd. forks, 67 ft. N. and 49 ft. W. from Friendship School, in concrete post; standard tablet stamped "T T 68 J J 1936" -----	40 34 40.0	92 52 14.8	2,676
Center of bridge -----	40 34 13.93	92 51 20.18	4,976
T-rd. E. -----	40 34 29.3	92 50 25.5	4,494
T-rd. E. -----	40 34 39.8	92 49 20.9	5,098
T-rd. E. -----	40 34 32.5	92 48 03.0	6,055
T. 67 N., R. 17 W., 710 ft. N. of quarter cor. between secs. 27 and 34, 20 ft. N. and 50 ft. W. from T-rd. W., in concrete post; standard tablet stamped "T T 69 J J 1936" -----	40 34 32.82	92 47 45.85	1,319
Rd. at fences E. and W. on Iowa-Mo. State line -----	40 35 19.2	92 47 44.4	4,695
T-rd. S. -----	40 35 41.7	92 47 43.8	2,280
T. 67 N., R. 17 W., quarter cor. between secs. 11 and 14, T-rd. S. -----	40 35 41.71	92 46 52.5	3,955
T. 67 N., R. 17 W., 300 ft. E. of N. quarter cor. sec. 25, on Iowa-Mo. State line, 16 ft. S. and 210 ft. E. from rd. corner from N.-E., in concrete post; standard tablet stamped "T T 70 J J 1936" -----	40 35 19.97	92 45 23.94	7,178

(Continued in Moulton quadrangle; see line 8.)

Magnetic declination 7° 20' E.

SEYMOUR QUADRANGLE *
(Latitude 40°30'-40°45'; longitude 93°00'-93°15')

Putnam County



1. FROM SEC. 24, T. 67 N., R. 19 W., SOUTH INTO CENTERVILLE QUADRANGLE
AT SEC. 2, T. 66 N., R. 19 W. (by E. L. McNair in 1923)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 67 N., R. 19 W., S. cor. secs. 23 and 24, on Iowa-Mo. State line, 20 ft. S. of T-rd. N., 2 ft. N. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 33 Mac 1923" -	40 35 11.58	93 00 03.95	.....
T. 67 N., R. 19 W., quarter cor. between secs. 26 and 35, T-rd. W. -----	40 34 25.3	93 00 16.3	4,777
Tps. 66 and 67 N., R. 19 W., approximate quarter cor. between secs. 2 and 35, T-rd. N. -----	40 33 32.7	93 00 15.9	5,330

(Continued in Centerville quadrangle; see line 2.)

2. FROM ALLERTON QUADRANGLE AT SEC. 22, T. 66 N., R. 21 W., EAST INTO
BOYNTON QUADRANGLE AT SEC. 28, T. 66 N., R. 20 W. (by J. L. Sanders in 1923)

T. 66 N., R. 21 W., cor. secs. 21, 22, 27, and 28, crossroads (in Allerton quadrangle)**-----	40 30 01.5	93 15 37.6	.....
Center of bridge -----	40 29 59.6	93 14 54.3	3,349
Center of bridge -----	40 29 57.4	93 14 32.6	1,686
T. 66 N., R. 21 W., quarter cor. between secs. 23 and 26, crossroads -----	40 30 01.4	93 13 55.7	(2,883)

(For balance in Boynton quadrangle, see line 3.)

T. 66 N., Rs. 20 and 21 W., approximate cor. secs. 19, 24, 25, and 30, T-rd. N. -----	40 30 01.6	93 12 12.8	(5,332)
Locust Creek, center of bridge over -----	40 30 01.8	93 10 55.2	5,690
Rd. forks -----	40 30 08.7	93 10 31.3	1,972
T. 66 N., R. 20 W., cor. secs. 20, 21, 28, and 29, crossroads -----	40 30 01.3	93 09 57.2	2,741
T. 66 N., R. 20 W., quarter cor. between secs. 21 and 28, T-rd. S. -----	40 30 01.8	93 09 23.2	2,620

(Continued in Boynton quadrangle; see line 3.)

3. FROM ALLERTON QUADRANGLE AT SEC. 34, T. 67 N., R. 21 W., SOUTH INTO
BOYNTON QUADRANGLE AT SEC. 24, T. 66 N., R. 21 W. (by J. J. Beinlich in 1936)

T-rd. N. (in Allerton quadrangle)**-----	40 33 55.2	93 15 20.8	.....
T. 67 N., R. 21 W., quarter cor. between secs. 34 and 35, 20 ft. N. of rd. corner from S.-W., in concrete post; standard tablet stamped "T T 56 J J 1936" -----	40 33 55.33	93 14 29.65	3,948
Tps. 66 and 67 N., R. 21 W., approximate quarter cor. between secs. 2 and 35, crossroads -----	40 33 29.2	93 13 55.6	3,730

*The greater part of this quadrangle lies in Iowa.

**Line 1 of Allerton quadrangle includes a portion of this line (see Bull. 916-D).

***Line 3 of Allerton quadrangle includes a portion of this line (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. W. -----	40 33 04.2	93 13 56.2	2,532
T. 66 N., R. 21 W., quarter cor. between secs. 2 and 11, T-rd. E. -----	40 32 38.0	93 13 56.0	2,640
T-rd. W. -----	40 32 25.1	93 13 55.9	1,310
T. 66 N., R. 21 W., quarter cor. between secs. 11 and 14, 46 ft. S. and 24 ft. W. from cross- roads, in concrete post; standard tablet stamped "T T 59 J J 1936" -----	40 31 45.29	93 13 55.97	4,027
T. 66 N., R. 21 W., center sec. 14, stone at crossroads -----	40 31 19.7	93 13 55.5	2,585
T. 66 N., R. 21 W., quarter cor. between secs. 13 and 14, stone at T-rd. W. -----	40 31 19.8	93 13 20.9	2,672

(Continued in Boynton quadrangle; see line 7.)

4. FROM BOYNTON QUADRANGLE AT SEC. 26, T. 66 N., R. 21 W., EAST INTO
BOYNTON QUADRANGLE AT SEC. 26, T. 66 N., R. 20 W. (by J. J. Beinlich
in 1936)

T T 60 J J 1936 (In Boynton quadrangle; see line 7.) -----	40 29 57.12	93 13 21.25	.....
T. 66 N., Rs. 20 and 21 W., cor. secs. 19, 24, 25, and 30, T-rd. N. and lane S. -----	40 30 01.1	93 12 12.6	5,321
T-rd. N. -----	40 30 01.8	93 11 39.5	2,551
T. 66 N., R. 20 W., 0.1 mi. N. of quarter cor. between secs. 20 and 29, 16 ft. S. and 20 ft. E. from T-rd. N. and abandoned rd. S., in concrete post; standard tablet stamped "T T 61 J J 1936" -----	40 30 08.42	93 10 31.06	5,332
T-rd. N., 95 ft. W. of quarter cor. between secs. 21 and 28, T. 66 N., R. 20 W. -----	40 30 01.8	93 09 24.5	5,187

(Continued in Boynton quadrangle; see line 8.)

5. FROM SEC. 35, T. 67 N., R. 21 W., EAST INTO CENTERVILLE QUADRANGLE AT
SEC. 26, T. 67 N., R. 19 W. (by J. J. Beinlich in 1936)

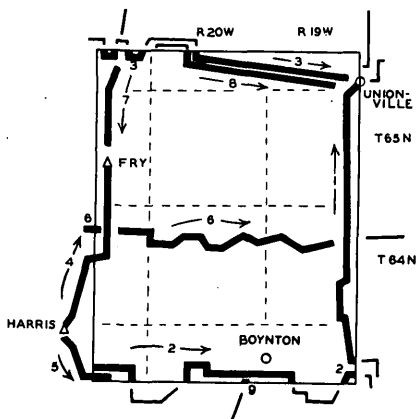
Crossroads (previously described) -----	40 33 29.2	93 13 55.6	.....
T. 66 N., R. 21 W., N. cor. secs. 1 and 2, rd. at fence S., 33 ft. W. of rd. at fence N. -----	40 33 29.5	93 13 21.6	2,627
Tps. 66 and 67 N., R. 21 W., E. sixteenth cor. between secs. 1 and 36, 21 ft. S. and 31 ft. W. from T-rd. S., 20 ft. W. of fence, in concrete post; standard tablet stamped "T T 62 J J 1936" -----	40 33 29.77	93 12 30.26	3,959
T. 67 N., R. 20 W., S. cor. secs. 31 and 32, T-rd. N. -----	40 33 30.5	93 11 04.6	6,598
T. 67 N., R. 20 W., cor. secs. 29, 30, 31, and 32, crossroads -----	40 34 22.9	93 11 04.1	5,300
T. 67 N., R. 20 W., E. sixteenth cor. between secs. 29 and 32, 25 ft. S. and 48 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 63 J J 1936" -----	40 34 22.77	93 10 12.85	3,955
T. 67 N., R. 20 W., cor. secs. 27, 28, 33, and 34, T-rd. S. -----	40 34 23.4	93 06 46.6	6,659
Crossroads -----	40 34 23.9	93 07 15.5	7,024
Junction of abandoned rd. S. -----	40 34 24.1	93 06 12.9	4,835
T. 67 N., Rs. 19 and 20 W., cor. secs. 25, 30, 31, and 36, 22 ft. N. and 5 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 64 J J 1936" -----	40 34 24.23	93 05 21.74	3,945
T-rd. S. on Iowa-Mo. State line -----	40 35 03.7	93 05 07.1	4,148
T-rd. N. on Iowa-Mo. State line -----	40 35 04.4	93 04 39.4	2,135
T-rd. S. on Iowa-Mo. State line -----	40 35 05.4	93 03 59.3	3,100
T. 67 N., R. 19 W., N. cor. secs. 28 and 29, 5 ft. S. and 17 ft. E. from stone on Iowa-Mo. State line, 35 ft. N. and 60 ft. E. from dwelling of Mary Idleman, 25 ft. S. of rd., in concrete post; standard tablet stamped "T T 65 J J 1936" -----	40 35 06.90	93 03 06.18	4,101
T-rd. N. on Iowa-Mo. State line -----	40 35 08.8	93 02 03.8	4,818
State Highway 5 at crossroad on Iowa-Mo. State line -----	40 35 09.9	93 01 27.5	2,800
T. 67 N., R. 19 W., S. cor. secs. 22 and 23, T-rd. N. on Iowa-Mo. State line -----	40 35 10.3	93 01 12.2	1,181
T. 67 N., R. 19 W., N. quarter cor. sec. 26, T-rd. S. on Iowa-Mo. State line -----	40 35 11.5	93 00 16.5	4,300
Prim Trav Sta No 33 Mac 1923 (previously de- scribed) -----	40 35 11.58	93 00 03.95	969

(Continued in Centerville quadrangle; see line 3.)

Magnetic declination 5° 59' E.

BOYNTON QUADRANGLE
(Latitude 40°15'-40°30'; longitude 93°00'-93°15')

Putnam and Sullivan Counties



1. FROM GREEN CITY QUADRANGLE AT SEC. 14, T. 63 N., R. 19 W., NORTH INTO GREEN CITY QUADRANGLE AT UNIONVILLE (by C. B. Kendall in 1910)
(Continued from Green City quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T-rd. N., 0.2 mi. E. of quarter cor. between secs. 14 and 15, T. 63 N., R. 19 W. -----	40 15 41.6	93 00 10.3	(5,369)
T. 63 N., R. 19 W., W. sixteenth cor. between secs. 11 and 14, crossroads, 340 ft. W. of bridge -----	40 16 07.8	93 00 09.1	2,651
T. 63 N., R. 19 W., W. sixteenth cor. between secs. 2 and 11, crossroads -----	40 17 00.0	93 00 09.1	5,280
T. 64 N., R. 19 W., quarter cor. between secs. 34 and 35, crossroads -----	40 18 20.1	93 00 26.2	8,222
T. 63 N., R. 19 W., N. cor. secs. 2 and 3, rd. corner, 65 ft. E. of S. cor. secs. 34 and 35, T. 64 N., R. 19 W. -----	40 17 54.0	93 00 26.0	2,640
T. 64 N., R. 19 W., cor. secs. 26, 27, 34, and 35, T-rd. W. -----	40 18 46.2	93 00 25.6	5,280
T. 64 N., R. 19 W., N. sixteenth cor. between secs. 26 and 27, stone in center of T-rd. W. --	40 19 25.4	93 00 24.9	3,970
T. 64 N., R. 19 W., cor. secs. 22, 23, 26, and 27, rd. at fences E. and W., 130 ft. S. of small bridge -----	40 19 38.4	93 00 24.8	1,330
T. 64 N., R. 19 W., quarter cor. between secs. 22 and 23, crossroads -----	40 20 04.5	93 00 24.6	2,640
T. 64 N., R. 19 W., cor. secs. 14, 15, 22, and 23, crossroads -----	40 20 30.6	93 00 24.3	2,640
T-rd. W., 20 ft. W. of cor. secs. 10, 11, 14, and 15, T. 64 N., R. 19 W. -----	40 21 22.6	93 00 24.4	5,260
T. 64 N., R. 19 W., near quarter cor. between secs. 10 and 11, 175 ft. SE. of Chappel School, 10 ft. S. of fence corner; iron post stamped "Prim Trav Sta No 10 1910 Mo" -----	40 21 48.40	93 00 23.77	2,614
T. 64 N., R. 19 W., quarter cor. between secs. 10 and 11, T-rd. E. -----	40 21 46.6	93 00 24.0	28
T. 64 N., R. 19 W., cor. secs. 2, 3, 10, and 11, rd. at fences E. and W. -----	40 22 14.7	93 00 24.0	2,640
T. 64 N., R. 19 W., quarter cor. between secs. 2 and 3, T-rd. E., 270 ft. N. of bridge over Spring Creek -----	40 22 40.8	93 00 23.8	2,650
T. 64 N., R. 19 W., N. cor. secs. 2 and 3, stone at T-rd. S. on Putnam-Sullivan county line, 110 ft. W. of S. cor. secs. 34 and 35, T. 65 N., R. 19 W. -----	40 23 08.3	93 00 24.0	2,777
T. 65 N., R. 19 W., cor. secs. 26, 27, 34, and 35, crossroads -----	40 24 00.7	93 00 22.9	5,302
T. 65 N., R. 19 W., cor. secs. 22, 23, 26, and 27, crossroads, 210 ft. S. of bridge over branch of Spring Creek -----	40 24 53.0	93 00 23.2	5,320
T. 65 N., R. 19 W., cor. secs. 14, 15, 22, and 23, T-rd. W., 40 ft. N. of bridge -----	40 25 45.5	93 00 23.6	5,290
T. 65 N., R. 19 W., cor. secs. 10, 11, 14, and 15, T-rd. E., 700 ft. N. of bridge over Blackbird Creek -----	40 26 37.9	93 00 23.8	5,310
T. 65 N., R. 19 W., cor. secs. 2, 3, 10, and 11, stone in N.-S. rd., 20 ft. S. of T-fence W. ---	40 27 30.1	93 00 24.2	5,280

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Unionville, at S. edge of, T-rd. S. at N. cor. secs. 2 and 3, T. 65 N., R. 19 W. -----	40 28 20.0	93 00 24.3	5,050
Unionville, center of Garfield Street in line with W. side of Eighteenth Street -----	40 28 20.0	93 00 15.2	705
Unionville, in NW. corner of courthouse square, 75 ft. SE. of intersection of Seventeenth and Main Streets; iron post stamped "Prim Trav Sta No 11 1910 Mo"* -----	40 28 36.55	93 00 09.97	1,719

(Continued in Green City quadrangle; see line 3.)

2. FROM LUCERNE QUADRANGLE AT SEC. 15, T. 63 N., R. 21 W., EAST INTO GREEN CITY QUADRANGLE AT SEC. 23, T. 63 N., R. 19 W. (by E. L. McNair in 1913)

T. 63 N., R. 21 W., cor. secs. 16, 17, 20, and 21, crossroads (in Lucerne quadrangle)** -----	40 15 12.2	93 16 19.9	.....
T. 63 N., R. 21 W., quarter cor. between secs. 15 and 22, stone -----	40 15 13.69	93 14 37.13	7,972
T. 63 N., R. 21 W., cor. secs. 14, 15, 22, and 23, 20 ft. N. and 23 ft. E. from T-rd. N.; iron post stamped "Prim Trav Sta No 16 1913 Mo" ---	40 15 13.84	93 14 02.86	2,658

(For balance in Milan quadrangle, see line 1.)

T-rd. E. -----	40 15 27.1	93 09 54.4	(10,060)
T. 63 N., R. 20 W., cor. secs. 16, 17, 20, and 21 -----	40 15 17.6	93 09 36.6	1,683
T. 63 N., R. 20 W., in NE 1/4 sec. 21, 35 ft. N. and 15 ft. W. from rd. forks N., SW., and SE., 2 ft. inside fence; iron post stamped "Prim Trav Sta No 17 1913 Mo" -----	40 15 03.90	93 08 45.09	5,866
T. 63 N., R. 20 W., cor. secs. 15, 16, 21, and 22 -----	40 15 18.0	93 08 27.4	1,980
T. 63 N., R. 20 W., cor. secs. 14, 15, 22, and 23, stone at crossroads -----	40 15 18.9	93 07 19.0	5,305
T. 63 N., R. 20 W., cor. secs. 13, 14, 23, and 24 -----	40 15 19.4	93 06 10.1	5,346
Chicago, Burlington & Quincy R.R. at rd. crossing T. 63 N., R. 19 W., cor. secs. 17, 18, 19, and 20, T-rd. N. -----	40 15 33.2	93 05 10.5	4,832
T. 63 N., R. 19 W., cor. secs. 16, 17, 20, and 21, T-rd. W. -----	40 15 18.5	93 03 50.2	6,397
	40 15 18.0	93 02 42.1	5,284

(For balance in Milan quadrangle, see line 1.)

T-rd. E. -----	40 15 00.2	93 00 44.4	(1,543)
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(Continued in Green City quadrangle; see line 5.)

3. FROM SEYMOUR QUADRANGLE AT SEC. 27, T. 66 N., R. 21 W., EAST TO UNIONVILLE (by J. L. Sanders in 1923)

(Continued from Seymour quadrangle; see line 2.)

Center of bridge -----	40 29 57.4	93 14 32.6	(1,686)
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(For balance in Seymour quadrangle, see line 2.)

T. 66 N., R. 21 W., cor. secs. 23, 24, 25, and 26, 21 ft. W. of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 79 L S 1923 Mo"*** -----	40 29 57.38	93 13 21.60	(2,664)
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(For balance in Seymour quadrangle, see line 2.)

T-rd. E. -----	40 29 22.8	93 09 22.7	(3,940)
Center of culvert -----	40 29 23.1	93 08 51.4	2,415
T. 66 N., R. 20 W., in SE 1/4 sec. 27, 22 ft. N. and 10 ft. E. from rd. fork SW., 45 ft. W. of old store building, in concrete post; standard tablet stamped "Prim Trav Sta No 80 L S 1923 Mo" -----	40 29 12.39	93 08 08.44	3,493
Rd. forks -----	40 29 23.7	93 07 40.2	2,462
Rd. forks -----	40 29 32.4	93 07 14.4	2,185
Crossroads -----	40 29 21.1	93 06 31.3	3,516
T-rd. N. on line between secs. 31 and 36, T. 66 N., Rs. 19 and 20 W. -----	40 28 57.7	93 05 22.8	5,798
T-rd. N. on line between secs. 31 and 32, T. 66 N., R. 19 W. -----	40 28 57.7	93 04 14.6	5,275

*It was reported by J. J. Beinlich, Aug. 4, 1936, that this post had been destroyed.

**Published also in Lucerne quadrangle (see Bull. 916-D).

***It was reported by J. J. Beinlich in 1936 that this monument had been destroyed.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 66 N., R. 19 W., center of N. 1/2 of sec. 32, 30 ft. E. of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 81 L S 1923 Mo" -----	40 28 57.79	93 03 40.40	2,640
T. 66 N., R. 19 W., center sec. 32, T-rd. E. ----	40 28 44.8	93 03 40.7	1,320
T. 66 N., R. 19 W., center sec. 33, cross fences -----	40 28 45.2	93 02 32.4	5,280
T. 66 N., R. 19 W., quarter cor. between secs. 33 and 34, crossroads -----	40 28 45.5	93 01 58.0	2,660
Unionville, at W. limits of, T-rd. S. -----	40 28 46.0	93 00 49.4	5,300
Chicago, Burlington & Quincy R.R. at rd. crossing, 80 ft. S. of milepost 125 -----	40 28 41.4	93 00 15.0	2,726
Prim Trav Sta No 11 1910 Mo (previously described) -----	40 28 36.55	93 00 09.97	625

4. FROM SEC. 6, T. 63 N., R. 21 W., NORTHEAST TO SEC. 15, T. 65 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN LUCERNE QUADRANGLE* (by S. T. Tudor in 1935)*

Harris triangulation sta.; U.S.C. & G.S. standard disk stamped "Harris 1928" -----	40 16 27.90	93 17 00.02	.....
T-rd. S. -----	40 16 56.1	93 16 54.2	2,887
T. 63 N., R. 21 W., cor. secs. 4, 5, 8, and 9, T-rd. N. -----	40 16 57.1	93 16 20.0	2,650
Tps. 63 and 64 N., R. 21 W., approximate cor. secs. 4, 5, 32, and 33, rd. at fence W. and lane E. -----	40 17 49.1	93 16 19.4	5,259
T-rd. S. -----	40 18 15.3	93 16 19.2	2,650
Rd. corner from W.-N. -----	40 18 15.9	93 15 45.2	2,633
Rd. at fences E. and W. -----	40 18 42.4	93 15 28.0	2,997
T. 64 N., R. 21 W., 165 ft. E. of E. sixteenth cor. between secs. 21 and 28, 30 ft. N. and 28 ft. W. from T-rd. N., in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 1563 E R A 1935" -----	40 19 35.37	93 15 25.95	5,357
Rd. at fences E. and W. -----	40 20 01.6	93 15 11.4	2,887
T. 64 N., R. 21 W., cor. secs. 15, 16, 21, and 22, rd. at fences E. and W. -----	40 20 27.9	93 15 11.5	2,660
T-rd. S. -----	40 20 54.2	93 15 11.4	2,660
T. 64 N., R. 21 W., quarter cor. between secs. 14 and 15, T-rd. N. -----	40 20 55.6	93 14 02.6	5,333
T. 64 N., R. 21 W., approximate quarter cor. between secs. 10 and 11, 36 ft. S. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 1564 E R A 1935" -----	40 21 47.77	93 14 02.12	5,277
T. 64 N., R. 21 W., cor. secs. 2, 3, 10, and 11, rd. at fences E. and W. -----	40 22 14.6	93 14 02.2	2,709
T. 64 N., R. 21 W., N. cor. secs. 2 and 3, T-rd. S. -----	40 23 06.0	93 14 02.0	5,210
T. 65 N., R. 21 W., cor. secs. 26, 27, 34, and 35, crossroads -----	40 23 57.8	93 14 01.1	5,240
T. 65 N., R. 21 W., cor. secs. 22, 23, 26, and 27, T-rd. E. -----	40 24 50.8	93 14 00.7	5,360
T. 65 N., R. 21 W., cor. secs. 14, 15, 22, and 23, crossroads -----	40 25 43.2	93 14 00.2	5,300
Fry triangulation sta.; U.S.C. & G.S. standard disk stamped "Fry 1928" -----	40 26 23.20	93 14 10.58	4,125

5. FROM SEC. 8, T. 63 N., R. 21 W., SOUTHEAST TO SEC. 14, T. 63 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN LUCERNE QUADRANGLE (by S. T. Tudor in 1935)**

Harris triangulation sta. (previously described)-	40 16 27.90	93 17 00.02	.....
T-rd. N. -----	40 16 03.8	93 16 54.1	2,480
T-rd. S. -----	40 16 04.5	93 16 22.7	2,432
Rd. at fences E. and W. -----	40 15 38.4	93 16 20.5	2,648
T. 63 N., R. 21 W., cor. secs. 16, 17, 20, and 21, crossroads -----	40 15 12.1	93 16 19.9	2,665
Rd. corner -----	40 15 12.6	93 15 45.7	2,651
T. 63 N., R. 21 W., cor. secs. 15, 16, 21, and 22, T-fence E. -----	40 15 13.7	93 15 11.5	2,653
T. 63 N., R. 21 W., quarter cor. between secs. 15 and 22, rd. at fences N. and S. -----	40 15 13.6	93 14 37.2	2,662
Prim Trav Sta No 16 1913 Mo (previously described)***	40 15 13.94	93 14 02.82	2,660

6. FROM LUCERNE QUADRANGLE AT SEC. 3, T. 64 N., R. 21 W., EAST TO SEC. 11, T. 64 N., R. 19 W. (by J. J. Beinlich in 1936)

Rd. at fence S. (in Lucerne quadrangle)****	40 21 46.8	93 15 11.4	.....
T. T. 1564 E R A 1935 (previously described) -----	40 21 47.77	93 14 02.12	5,367
T-rd. N. -----	40 21 48.9	93 13 10.5	3,999
Rd. at rd. S. produced-----	40 21 49.2	93 12 53.2	1,340
T. 64 N., R. 20 and 21 W., approximate quarter cor. between secs. 7 and 12, T-rd. N. -----	40 21 49.5	93 11 46.7	5,149
Rd. forks -----	40 21 42.5	93 11 38.8	930
T-rd. S. -----	40 21 48.3	92 10 25.6	5,703

*Published also as line 5 of the Lucerne quadrangle (see Bull. 916-D).

**Published also as line 6 of the Lucerne quadrangle (see Bull. 916-D).

***In Nov. 1936 this position was moved 10 ft. N. and 3 ft. E. from its original location. The coordinates here given refer to the new position.

****Published in Lucerne quadrangle (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 64 N., R. 20 W., center sec. 8, 20 ft. N. and 120 ft. E. from T-rd. N., 60 ft. S. of SE. corner of stucco school, in concrete post; standard tablet stamped "T T 53 J J 1936" -----	40 21 48.47	93 10 06.91	1,446
T. 64 N., R. 20 W., center sec. 9, crossroads ---	40 21 48.7	93 09 00.6	5,129
T-rd. S. -----	40 21 36.3	93 07 52.1	5,453
T-rd. E. -----	40 21 16.5	93 07 52.1	2,610
Fence corner at center of crossing of old right-of-way -----	40 21 10.7	93 07 17.8	2,660
T. 64 N., R. 20 W., in NE 1/4 sec. 14, 25 ft. S. and 40 ft. W. from State Highway 5 at rd. W., in concrete post; standard tablet stamped "T T 54 J J 1936" -----	40 21 05.77	93 06 27.36	3,933
Crossroads -----	40 21 38.3	93 05 50.1	4,378
Chicago, Furlington & Quincy R.R. at rd. crossing T-rd. N. -----	40 21 32.9	93 05 12.0	2,994
Pollock, 1.2 mi. E. of, 35 ft. N. and 105 ft. W. from cor. secs. 7, 8, 17, and 18, T. 64 N., R. 19 W., 35 ft. N. and 200 ft. W. from T-rd. N., in concrete post; standard tablet stamped "T T 55 J J 1936" -----	40 21 25.72	93 03 53.13	4,399
T. 64 N., R. 19 W., cor. secs. 8, 9, 16, and 17, crossroads -----	40 21 25.1	93 02 42.7	5,455
Crossroads -----	40 21 23.9	93 01 33.6	5,350
Prim Trav Sta No 10 1910 Mo (previously described) -----	40 21 48.40	93 00 23.77	5,947

7. FROM SEYMOUR QUADRANGLE AT SEC. 24, T. 66 N., R. 21 W., SOUTH TO SEC. 15, T. 65 N., R. 21 (by J. J. Beinlich in 1936)*
(Continued from Seymour quadrangle; see line 3.)

T. 66 N., R. 21 W., cor. secs. 23, 24, 25, and 26, 48 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 60 J J 1936" ** -----	40 29 57.12	93 13 21.25	(8,364)
T. 66 N., R. 21 W., cor. secs. 25, 26, 35, and 36, T-rd. N. -----	40 29 09.2	93 13 21.0	4,850
Crossroads -----	40 29 09.3	93 13 55.4	2,654
T-rd. S. -----	40 28 19.9	93 13 59.2	5,013
Crossroads -----	40 27 27.8	93 13 59.6	5,269
T-rd. E. -----	40 26 35.3	93 13 59.8	5,310
Fry triangulation sta. (previously described) ---	40 26 23.20	93 14 10.58	1,482

8. FROM SEYMOUR QUADRANGLE AT SEC. 28, T. 66 N., R. 20 W., EAST TO UNIONVILLE (by J. J. Beinlich in 1936)

T-rd. E. -----	40 29 22.9	93 09 22.6	(3,937)
Prim Trav Sta No 80 L S 1923 Mo (previously described) -----	40 29 12.39	93 08 08.44	5,827
Rd. forks -----	40 29 32.4	93 07 14.4	4,639
T-rd. N. on line between secs. 25 and 26, T. 66 N., R. 20 W. -----	40 29 21.0	93 06 31.2	3,528
T. 66 N., Rs. 19 and 20 W., N. sixteenth cor. between secs. 31 and 36, T-rd. N. -----	40 26 57.6	93 05 22.7	5,792
Prim Trav Sta No 81 L S 1923 Mo (previously described) -----	40 26 57.79	93 03 40.40	7,907
Rd. at fences N. and S. -----	40 28 45.5	93 01 58.0	8,009
T-rd. N. -----	40 28 45.6	93 01 40.9	1,320
T-rd. S. -----	40 28 45.8	93 01 06.4	2,660
Unionville, in W. abutment of N. entrance to courthouse; standard tablet stamped "T T 74 J J 1936" -----	40 26 35.94	93 00 08.28	4,599
Unionville, smokestack at power plant -----	40 26 35.70	93 00 35.48	2,104

9. FROM MILAN QUADRANGLE NORTH ALONG STATE HIGHWAY 5 TO SEC. 13, T. 63 N., R. 20 W. (fourth-order traverse by State Highway Department in 1934)
(Continued from Milan quadrangle; see line 6.)

Junction of rd. E. -----	40 15 06.2	93 06 06.1	(1,355)
T. 63 N., R. 20 W., cor. secs. 13, 14, 23, and 24 (previously described) -----	40 15 19.4	93 06 10.1	1,364

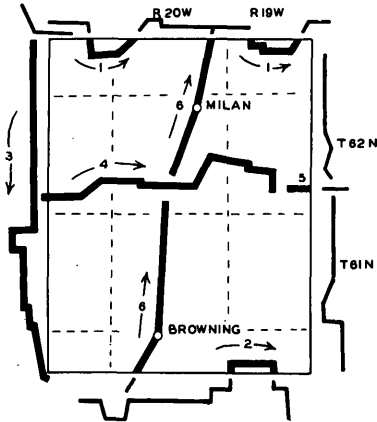
Magnetic declination 7° 01' E.

*Published also as line 8 of the Lucerne quadrangle (see Bull. 916-D).

**This monument is approximately 27 ft. S. and 9 ft. E. from Prim Trav Sta No 79 L S 1923 Mo which has been destroyed.

MILAN QUADRANGLE
(Latitude 40°00'-40°15'; longitude 93°00'-93°15')

Linn and Sullivan Counties



1. FROM BOYNTON QUADRANGLE AT SEC. 23, T. 63 N., R. 21 W., EAST INTO
BOYNTON QUADRANGLE AT SEC. 22, T. 63 N., R. 19 W. (by E. L. McNair
in 1913)
(Continued from Boynton quadrangle; see line 2.)

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 63 N., R. 21 W., quarter cor. between secs. 23 and 24, T-rd. N. -----	40 14 49.1	93 12 54.8	.....
T. 63 N., R. 20 W., probable W. cor. secs. 19 and 30, rd. corner -----	40 14 24.4	93 11 46.1	5,890
T-rd. N. -----	40 14 24.5	93 11 35.2	850

(For balance in Boynton quadrangle, see line 2.)

T. 63 N., R. 19 W., quarter cor. between secs. 20				
and 21, T-rd. E. -----	40 14 51.9	93 02 42.0		(2,641)
T. 63 N., R. 19 W., quarter cor. between secs. 21				
and 22, T-rd. N. -----	40 14 51.0	93 01 33.6		5,307
T. 63 N., R. 19 W., center sec. 22, T-rd. S. ----	40 14 50.4	93 00 59.7		2,630

(Continued in Boynton quadrangle; see line 2.)

2. FROM LINNEUS QUADRANGLE AT SEC. 25, T. 60 N., R. 20 W., EAST INTO
LINNEUS QUADRANGLE AT SEC. 29, T. 60 N., R. 19 W. (by C. R. Fisher
in 1924)
(Continued from Linneus quadrangle; see line 1.)

T. 60 N., Rs. 19 and 20 W., cor. secs. 19, 24, 25, and 30, 130 ft. S. and 20 ft. E. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 3 F 1924"-----	40 00 04.61	93 04 28.95	.....
T. 60 N., R. 19 W., cor. secs. 19, 20, 29, and 30, crossroads-----	40 00 03.3	93 03 18.0	5,528

(Continued in Linneus quadrangle; see line 1.)

3. FROM LUCERNE QUADRANGLE AT SEC. 21, T. 63 N., R. 21 W., SOUTH INTO CHULA QUADRANGLE AT SEC. 28, T. 60 N., R. 21 W. (by S. T. Tudor in 1934)*

Crossroads (in Lucerne quadrangle) -----	40 15 12.1	93 16 19.9	.....
Rd. at fences E. and W. -----	40 14 46.1	93 16 19.8	2,630
T. 63 N., R. 21 W., cor. secs. 20, 21, 28, and 29, 210 ft. S. and 300 ft. E. from crossroads, in yard of Prairie Dale School, in concrete post; standard tablet stamped "769 C W A 1934"-----	40 14 17.48	93 16 16.03	2,908
T-rd. W. -----	40 14 19.9	93 15 45.7	2,363
T-rd. E. -----	40 13 53.7	93 15 45.8	2,645
T. 63 N., R. 21 W., quarter cor. between secs. 28 and 33, rd. at fence E. -----	40 13 27.7	93 15 45.9	2,630
Rd. at fence W. -----	40 13 01.2	93 15 45.9	2,680
T-rd. E. -----	40 12 39.1	93 15 46.0	2,245

* Published also as line 3 of the Galt quadrangle (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 62 N., R. 21 W., about 0.1 mi. E. of N. sixteenth cor. sec. 4, 400 ft. NW. of dwelling of R. S. Bartimus, 5 ft. N. and 25 ft. W. from rd. at fences E. and W., in concrete post; standard tablet stamped "770 C W A 1934" -----	40 12 23.31	93 15 38.27	1,704
Rd. at fences E. and W. -----	40 12 10.1	93 15 37.5	1,340
T-rd. W. -----	40 11 17.4	93 15 47.0	5,380
T. 62 N., R. 21 W., quarter cor. between secs. 9 and 16, rd. at fence E. -----	40 10 51.1	93 15 47.0	2,660
Rd. at fence W. -----	40 10 24.9	93 15 47.1	2,650
T. 62 N., R. 21 W., quarter cor. between secs. 16 and 21, 445 ft. S. and 23 ft. E. from rd. at fences E. and W., 35 ft. E. of rd., in concrete post; standard tablet stamped "771 C W A 1934" -----	40 09 53.96	93 15 47.08	3,133
T-rd. N. -----	40 09 32.1	93 15 47.3	2,214
T. 62 N., R. 21 W., quarter cor. between secs. 21 and 28, abandoned rd. at fences E. and W. -----	40 09 05.7	93 15 47.3	2,668
T-rd. S. -----	40 08 39.3	93 15 47.2	2,669
T. 62 N., R. 21 W., quarter cor. between secs. 28 and 33, rd. at fence W. -----	40 08 13.0	93 15 47.5	2,668
T. 62 N., R. 21 W., 8 ft. N. and 23 ft. E. from center sec. 33, 250 ft. S. of State Highway 6 at crossroad, E. of rd., in concrete post; standard tablet stamped "772 C W A 1934" -----	40 07 46.76	93 15 47.43	2,650
Tps. 61 and 62 N., R. 21 W., approximate quarter cor. between secs. 4 and 33, rd. at fence E. --	40 07 20.3	93 15 48.0	2,679
T. 61 N., R. 21 W., quarter cor. between secs. 4 and 9, T-rd. W. -----	40 06 27.6	93 15 47.3	5,313
T. 61 N., R. 21 W., cor. secs. 4, 5, 8, and 9, rd. at fences N. and S. -----	40 06 27.3	93 16 21.0	2,615
Rd. at fence S. -----	40 06 26.8	93 16 55.7	2,700
Whaley triangulation sta.; U.S.C. & G.S. standard disk stamped "Whaley 1928" -----	40 05 59.96	93 17 27.67	3,679
T. 61 N., R. 21 W., cor. secs. 7, 8, 17, and 18, rd. at fence W. -----	40 05 33.7	93 17 28.5	2,658
Rd. at fences N. and S. -----	40 05 21.1	93 16 54.5	2,939
T-rd. W. -----	40 05 21.7	93 16 20.6	2,630
Rd. at fences E. and W. -----	40 05 08.5	93 16 20.4	1,336
T. 61 N., R. 21 W., cor. secs. 16, 17, 20, and 21, crossroads -----	40 04 42.2	93 16 20.1	2,664
Hamilton church spire -----	40 04 42.6	93 16 23.3	252
T. 61 N., R. 21 W., quarter cor. between secs. 20 and 21, 290 ft. S. and 23 ft. E. from, 0.5 mi. S. of crossroads at Hamilton School, 23 ft. E. of rd., in concrete post; standard tablet stamped "773 C W A 1934" -----	40 04 12.97	93 16 19.44	3,009
T. 61 N., R. 21 W., cor. secs. 20, 21, 28, and 29, crossroads -----	40 03 49.5	93 16 19.2	2,380
Rd. at fence W. -----	40 03 23.2	93 16 19.2	2,660
T. 61 N., R. 21 W., cor. secs. 28, 29, 32, and 33, T-rd. N. -----	40 02 56.9	93 16 18.9	2,668
Crossroads -----	40 02 57.2	93 16 01.9	1,324
Rd. at fence E. -----	40 02 31.0	93 16 01.6	2,647
T. 61 N., R. 21 W., W. sixteenth cor. on S. line sec. 33, T-rd. N. -----	40 02 04.6	93 16 01.4	2,670
T. 60 N., R. 21 W., N. quarter cor. sec. 9, 29 ft. S. and 18 ft. W. from T-rd. S., in concrete post; standard tablet stamped "774 C W A 1934" -----	40 02 04.65	93 15 45.20	1,260
Rd. corner from W.-S. -----	40 01 40.3	93 15 27.7	2,812
T-rd. W. -----	40 01 14.0	93 15 27.5	2,664
Rd. at fence W. -----	40 00 47.8	93 15 27.5	2,650
Rd. at fences E. and W. -----	40 00 21.2	93 15 27.1	2,690
Prim Trav Sta No 51 S 1921 Mo (In Linneus quadrangle; see line 1.) -----	39 59 02.13	93 14 51.93	7,579

4. FROM GALT QUADRANGLE EAST ALONG STATE HIGHWAY 6 TO SEC. 28, T. 62 N., R. 20 W., THENCE EAST ALONG ROADS TO SEC. 28, T. 62 N., R. 19 W. (by S. T. Tudor in 1934-35)

772 C W A 1934 (previously described) -----	40 07 46.76	93 15 47.43	.....
Highway at fences N. and S. (in Galt quadrangle)*	40 07 52.8	93 15 13.6	2,694
Highway at fences N. and S. -----	40 07 52.9	93 14 39.3	2,670
Highway at fences N. and S. -----	40 07 52.2	93 14 04.8	2,677
Crossroad -----	40 06 11.4	93 13 13.5	4,439
T. 62 N., R. 21 W., in SW 1/4 sec. 25, 38 ft. S. and 4 ft. W. from highway at fence N., in concrete post; standard tablet stamped "T T 775 C W A 1934" -----	40 08 24.73	93 12 41.56	2,819
Highway at fence S. -----	40 08 25.5	93 12 23.2	1,426
T. 62 N., R. 20 W., center of SW 1/4 sec. 30, crossroad -----	40 08 30.5	93 11 31.9	4,018
Highway at fence S. -----	40 08 30.8	93 10 40.8	3,970
Highway at fences N. and S. -----	40 08 18.1	93 09 50.3	4,123

* Published also in Galt quadrangle (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	" ' "	" ' "	Feet
T. 62 N., R. 20 W., W. sixteenth cor. between secs. 28 and 33; 35 ft. S. and 50 ft. E. from State Highway 6 at junction of State Highway 5 and rd. E., in concrete post; standard tablet stamped "T T 776 C W A 1934" -----	40 08 18.16	93 09 13.45	2,860
T. 62 N., R. 20 W., cor. secs. 27, 28, 33, and 34, T-rd. N. -----	40 08 19.2	93 08 24.7	3,787
Rd. at fences N. and S. -----	40 08 19.9	93 07 50.4	2,667
Rd. corner from N.-E. -----	40 08 06.3	93 07 15.3	3,053
T-rd. W. -----	40 08 06.6	93 06 44.6	2,380
T. 62 N., R. 20 W., near center sec. 26, 20 ft. N. of rd. fork NW., in concrete post; standard tablet stamped "T T 777 C W A 1934" -----	40 08 48.26	93 06 28.41	4,403
Rd. fork N. -----	40 09 12.9	93 05 50.2	3,877
T. 62 N., Rs. 19 and 20 W., cor. secs. 19, 24, 25, and 30, T-rd. W. -----	40 09 13.4	93 04 58.8	3,990
Rd. corner from N.-E. -----	40 09 12.1	93 04 22.7	2,803
T. 62 N., R. 19 W., cor. secs. 19, 20, 29, and 30, 800 ft. S. and 50 ft. E. from T-rd. W., 12 ft. N. and 35 ft. E. from NW. corner of cemetery, in concrete post; standard tablet stamped "T T 778 C W A 1934" -----	40 09 04.29	93 03 45.32	3,010
T-rd. E. -----	40 08 46.1	93 03 47.2	1,851
T. 62 N., R. 19 W., center sec. 29, rd. at fence N. -----	40 08 45.6	93 03 14.2	2,560
Rd. at fences N. and S. -----	40 08 44.6	93 02 06.0	5,300
T-rd. W. -----	40 08 44.2	93 01 31.6	2,670
T. 62 N., R. 19 W., cor. secs. 27, 28, 33, and 34, 40 (? 35) ft. S. of T-rd. N., in concrete post; standard tablet stamped "T T 779 C W A 1934" -----	40 08 17.90	93 01 31.69	2,660

5. FROM WINIGAN QUADRANGLE AT SEC. 26, T. 62 N., R. 19 W., WEST TO SEC. 28, T. 62 N., R. 19 W. (by S. T. Tudor in 1934-35)
(Continued from Winigan quadrangle; see line 7.)

T. 62 N., R. 19 W., cor. secs. 26, 27, 34, and 35, rd. at fence S. -----	40 08 17.6	93 00 21.2	(2,381)
T T 779 C W A 1934 (previously described) -----	40 08 17.90	93 01 31.69	5,475

6. FROM LINNEUS QUADRANGLE NORTH ALONG STATE HIGHWAY 5 INTO BOYNTON QUADRANGLE (fourth-order traverse by State Highway Department in 1934)
(Continued from Linneus quadrangle; see line 7.)*

Crossroad -----*	40 00 25.7	93 10 33.4	(2,875)
Highway at fence W., 666 ft. W. of cor. secs. 17, 18, 19, and 20, T. 60 N., R. 20 W. -----*	40 00 51.9	93 10 20.3	2,839
Highway at approximate E.-W. line through center sec. 17, T. 60 N., R. 20 W., 517 ft. E. of quarter cor. between secs. 17 and 18 -----*	40 01 21.6	93 10 05.4	3,224
S. end of bridge -----*	40 01 31.8	93 10 00.4	1,100
Highway at fence W. on line between secs. 8 and 17, T. 60 N., R. 20 W. -----*	40 01 49.8	93 09 51.4	1,954
Browning, intersection of B Street on Linn-Sullivan county line -----*	40 02 10.8	93 09 42.1	2,250
Chicago, Burlington & Quincy R.R. at highway crossing -----*	40 02 21.0	93 09 34.6	1,176
Junction of rd. E. -----*	40 02 50.6	93 09 31.2	3,018
East Locust Creek, S. end of bridge over -----*	40 03 23.5	93 09 31.7	3,328
Crossroad at cor. secs. 20, 21, 28, and 29, T. 61 N., R. 20 W. -----*	40 03 55.9	93 09 32.3	3,272
Highway at fences E. and W. -----*	40 04 22.0	93 09 40.8	2,728
Highway at fences E. and W. on line between secs. 16 and 21, T. 61 N., R. 20 W., 105 ft. E. of cor. secs. 16, 17, 20, and 21 -----*	40 04 48.3	93 09 32.1	2,745
Junction of rd. W. -----*	40 04 14.8	93 09 16.6	2,946
Junction of rd. E. -----*	40 05 39.7	93 09 16.8	2,519
Highway at fences E. and W. -----*	40 06 07.2	93 09 06.9	2,888
Crossroad on line between secs. 4 and 9, T. 61 N., R. 20 W. -----*	40 06 33.4	93 09 13.1	2,697
Highway at fence W. -----*	40 06 59.4	93 09 12.9	2,626
Highway at fences E. and W. on line between secs. 4 and 33, Tps. 61 and 62 N., R. 20 W. -----	40 07 26.0	93 09 28.5	2,963
Junction of rd. W. -----	40 07 52.2	93 09 21.1	2,704
T T 776 C W A 1934 (previously described) -----	40 08 18.16	93 09 13.45	2,699
Crossroad -----	40 08 50.9	93 09 00.4	3,469
Junction of old rd. -----	40 09 15.4	93 08 37.7	3,042
Junction of rd. E. on line between secs. 16 and 21, T. 62 N., R. 20 W., 250 ft. W. of cor. secs. 15, 16, 21, and 22 -----	40 10 04.2	93 08 29.2	4,981
Highway at fences E. and W., 608 ft. E. of quarter cor. between secs. 15 and 16, T. 62 N., R. 20 W. -----	40 10 30.4	93 08 18.8	2,780
Highway at fences N. and S., 350 ft. N. of quarter cor. between secs. 10 and 15, T. 62 N., R. 20 W. -----	40 11 00.4	93 07 52.6	3,653

*Results not of third-order accuracy.

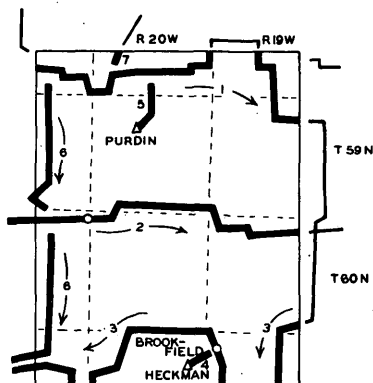
Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Highway at Chicago, Burlington & Quincy R.R. underpass -----	40 11 21.6	93 07 25.3	3,019
Junction of rd. E. on line between secs. 2 and 11, T. 62 N., R. 20 W. -----	40 11 49.8	93 07 00.6	3,435
Milan, intersection of Third Street -----	40 12 09.6	93 07 01.6	2,003
Highway at drainage ditch -----	40 12 40.6	93 06 56.3	3,174
Junction of State Highway 6 -----	40 12 42.4	93 06 44.6	921
Elmwood Creek, NE. end of bridge over -----	40 13 10.5	93 06 31.7	3,022
Highway at fences E. and W. on line between secs. 26 and 35, T. 63 N., R. 20 W. -----	40 13 34.9	93 06 24.3	2,540
Highway at fences E. and W. -----	40 14 01.0	93 06 18.3	2,678
T. 63 N., R. 20 W., cor. secs. 23, 24, 25, and 26, 540 ft. E. of highway -----	40 14 27.0	93 06 10.7	2,696
T. 63 N., R. 20 W., quarter cor. between secs. 23 and 24, 78 ft. E. of highway at fences E. and W. -----	40 14 53.2	93 06 10.0	2,658

(Continued in Boynton quadrangle; see line 9.)

Magnetic declination 7° 44' E.

LINNEUS QUADRANGLE
(Latitude 39°45'-40°00'; longitude 93°00'-93°15')

Linn County



1. FROM CHULA QUADRANGLE AT SEC. 28, T. 60 N., R. 21 W., EAST INTO
BUCKLIN QUADRANGLE AT SEC. 11, T. 59 N., R. 19 W. (by J. L. Sanders
in 1921 and C. R. Fisher in 1924)

T. 60 N., R. 21 W., cor. secs. 28, 29, 32, and 33 (in Chula quadrangle)* -----	39 59 01.6	93 16 29.2	.....
T. 60 N., R. 21 W., cor. secs. 27, 28, 33, and 34, 30 ft. S. and 35 ft. E. from crossroads; iron post stamped "Prim Trav Sta No 51 S 1921 Mo" -----	39 59 02.13	93 14 51.93	7,576
T. 60 N., R. 21 W., quarter cor. between secs. 27 and 34, crossroads -----	39 59 02.8	93 14 18.0	2,638
Drainage ditch, center of bridge over -----	39 58 37.2	93 13 09.7	5,920
Center of bridge over creek -----	39 58 56.4	93 12 21.2	4,243
Tps. 59 and 60 N., Rs. 20 and 21 W., cor. cf, T-rd. S. -----	39 58 11.7	93 11 27.3	6,165
Tps. 59 and 60 N., R. 20 W., W. sixteenth cor. between secs. 6 and 31, 30 ft. N. and 30 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 1 P 1924" -----	39 58 12.76	93 11 06.00	1,658
Center of bridge over creek -----	39 58 43.8	93 11 07.9	3,141
T-rd. E. -----	39 58 53.3	93 10 26.1	3,396
T-rd. N. -----	39 59 08.1	93 09 19.6	5,386
T. 60 N., R. 20 W., cor. secs. 27, 28, 33, and 34, 20 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 2 F 1924" -----	39 59 10.80	93 07 54.54	6,626
T. 60 N., R. 20 W., cor. secs. 26, 27, 34, and 35, T-rd. W. -----	39 59 12.7	93 06 46.1	5,331
T. 60 N., R. 20 W., quarter cor. between secs. 25 and 26 -----	39 59 40.1	93 05 37.5	6,022
T-rd. W. -----	39 59 42.2	93 04 29.2	5,326

(For balance in Milan quadrangle, see line 2.)

*Published also in Chula quadrangle (see Bull. 916-D).

**In 1924 this mark was reset 45 ft. S. and 50 ft. E. of its original location. The description and coordinates given refer to the new position.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 60 N., R. 19 W., cor. secs. 20, 21, 28, and 29, T-rd. S. -----	39 59 58.4	93 02 10.2	(5,300)
T. 60 N., R. 19 W., cor. secs. 21, 22, 27, and 28, 30 ft. S. and 30 ft. W. from T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 4 F 1924" -----	39 59 52.86	93 01 01.92	5,344
T. 60 N., R. 19 W., cor. secs. 27, 28, 33, and 34, crossroads -----	39 59 00.9	93 01 04.2	5,265
T. 60 N., R. 19 W., S. cor. secs. 33 and 34, T-rd. N. -----	39 58 08.6	93 01 06.3	5,295
T-rd. N. -----	39 57 17.7	93 01 10.7	5,162
T. 59 N., R. 19 W., cor. secs. 2, 3, 10, and 11, 25 ft. S. and 30 ft. W. from County Route C at crossroad, in concrete post; standard tablet stamped "Prim Trav Sta No 5 F 1924" -----	39 57 11.96	93 00 02.39	5,355

(Continued in Bucklin quadrangle; see line 1.)

2. FROM CHULA QUADRANGLE AT SEC. 4, T. 56 N., R. 21 W., EAST INTO BUCKLIN QUADRANGLE AT SEC. 2, T. 58 N., R. 19 W. (by J. L. Sanders in 1921 and C. R. Fisher in 1924)

Tps. 58 and 59 N., R. 21 W., approximate cor. secs. 4, 5, 32, and 33, crossroads (in Chula quadrangle)* -----	39 52 52.6	93 15 59.5	.....
Tps. 58 and 59 N., R. 21 W., cor. secs. 3, 4, 33, and 34, 15 ft. S. of stone; iron post stamped "Prim Trav Sta No 49 S 1921 Mo" -----	39 52 53.40	93 14 50.87	5,362
T-rd. N. -----	39 52 38.8	93 14 16.6	2,980
Locust Creek, center of W. pier of bridge over Linneus, in SW. corner of courthouse yard, 10 ft. E. of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 17 F 1924" ---	39 52 39.7	93 13 02.1	5,812
Meridian mark; U.S.C. & G.S. standard disk stamped "1917" -----	39 52 44.94	93 11 22.30	7,873
T-rd. S. -----	39 52 41.41	93 11 07.01	1,245
Tps. 58 and 59 N., R. 20 W., cor. secs. 4, 5, 32, and 33 -----	39 52 41.4	93 10 19.7	3,689
Tps. 58 and 59 N., R. 20 W., 20 ft. N. of cor. secs. 3, 4, 33, and 34, 90 ft. S. and 20 ft. E. from school, in concrete post; standard tablet stamped "Prim Trav Sta No 16 F 1924" -----	39 53 00.9	93 09 11.2	5,687
T-rd. S. -----	39 53 02.92	93 08 05.56	5,120
T. 59 N., R. 20 W., probable S. cor. secs. 35 and 36 -----	39 53 04.6	93 06 48.4	6,019
Tps. 58 and 59 N., Rs. 19 and 20 W., cor. of, 20 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 19 F 1924" -----	39 53 06.2	93 05 35.9	5,650
T. 58 N., R. 20 W., E. cor. secs. 1 and 12, T-rd. W. -----	39 53 08.16	93 04 27.35	5,343
T. 58 N., R. 19 W., probable cor. secs. 5, 6, 7, and 8 -----	39 52 14.4	93 04 30.3	5,444
T. 58 N., R. 19 W., quarter cor. between secs. 5 and 8, crossroads -----	39 52 05.7	93 03 34.8	4,412
T. 58 N., R. 19 W., quarter cor. between secs. 4 and 9, 30 ft. S. and 50 ft. W. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 20 F 1924" -----	39 52 03.7	93 03 00.8	2,661
T. 58 N., R. 19 W., cor. secs. 2, 3, 10, and 11 -	39 51 59.22	93 01 54.05	5,219
	39 51 53.6	93 00 11.5	8,014

(Continued in Bucklin quadrangle; see line 2.)

3. FROM BUCKLIN QUADRANGLE AT SEC. 35, T. 58 N., R. 19 W., WEST INTO CHULA QUADRANGLE AT SEC. 9, T. 57 N., R. 21 W. (by C. R. Fisher in 1924)

(Continued from Bucklin quadrangle; see line 1.)

Tps. 57 and 58 N., R. 19 W., cor. secs. 2, 3, 34, and 35, T-rd. S. -----	39 47 31.2	93 00 25.1	(3,572)
T. 57 N., R. 19 W., cor. secs. 2, 3, 10, and 11, T-rd. W. -----	39 46 35.4	93 00 26.3	5,650
T. 57 N., R. 19 W., cor. secs. 10, 11, 14, and 15 -----	39 45 43.1	93 00 27.4	5,290
T. 57 N., R. 19 W., quarter cor. between secs. 14 and 15, crossroads -----	39 45 16.9	93 00 27.8	2,650

(For balance in Rothville quadrangle, see line 2.)

T. 57 N., R. 19 W., cor. secs. 17, 18, 19, and 20, crossroads -----	39 45 01.2	93 03 53.4	(5,376)
T. 57 N., R. 19 W., cor. secs. 7, 8, 17, and 18, rd. forks -----	39 45 53.8	93 03 51.3	5,320
Brookfield, W. of S. entrance to post office, in top of S. end of base of lamp post; standard tablet stamped "Prim Trav Sta No 12 F 1924 1920 Mo 768" -----	39 47 14.09	93 04 22.54	8,483

* Published also in Chula quadrangle (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
Brookfield, 60 ft. N. of intersection of Main and John Streets, 6 ft. N. of flagpole; iron post stamped "Prim Trav Sta No 13 F 1924 1920 Mo 782" -----	39 47 19.42	93 04 31.21	866
Crossroads -----	39 47 16.9	93 05 53.7	6,440
T. 57 N., R. 20 W., in E½ sec. 3, 415 ft. W. of rd. bridge over Little Turkey Creek, 20 ft. S. of rd. in line with W. end of R.R. stone arch bridge over creek, in fence line; iron post stamped "Prim Trav Sta No 14 F 1924 1920 Mo 755" -----	39 47 12.92	93 07 10.97	6,048
T-rd. S. -----	39 47 10.0	93 08 13.6	4,900
Turkey Creek, center of bridge over -----	39 47 10.0	93 08 37.7	1,879
Laclede, in SE. corner of park, 18 ft. N. and 45 ft. W. from Chicago, Burlington & Quincy R.R. at rd. crossing; iron post stamped "Prim Trav Sta No 15 F 1924" -----	39 47 09.87	93 10 08.71	7,106
T. 57 N., R. 20 W., cor. secs. 5, 6, 7, and 8, T-rd. W. -----	39 46 41.9	93 10 29.9	3,250
Chicago, Burlington & Quincy R.R. at rd. crossing	39 46 42.1	93 10 30.6	3,010
T. 57 N., R. 20 W., cor. secs. 7, 8, 17, and 18, crossroads -----	39 45 48.0	93 10 31.3	2,441
T. 57 N., R. 20 W., quarter cor. between secs. 17 and 18, T-rd. W. -----	39 45 21.7	93 10 32.0	2,661
T. 57 N., Rs. 20 and 21 W., quarter cor. between secs. 15 and 18, 60 ft. S. and 30 ft. W. from T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 16 F 1924" -----	39 45 19.70	93 11 37.50	5,120
(For balance in Rothville quadrangle, see line 2.)			
Locust Creek drainage ditch, center of bridge over -----	39 45 17.9	93 13 01.0	(2,786)
T. 57 N., R. 21 W., cor. secs. 10, 11, 14, and 15, T-rd. W. -----	39 45 45.1	93 13 52.0	4,842
T-rd. N. -----	39 45 45.3	93 14 59.3	5,264
T. 57 N., R. 21 W., cor. secs. 8, 9, 16, and 17, crossroads (in Chula quadrangle) -----	39 45 45.7	93 16 08.3	5,390

4. FROM SEC. 2, T. 57 N., R. 20 W., EAST TO BROOKFIELD (by B. D. Harsha in 1934)

Heckman triangulation sta.; U.S.C. & G.S. standard disk stamped "Heckman 1928" -----	39 47 16.48	93 05 57.94	.....
Brookfield, intersection of Laclede Avenue E. and Green Street N. -----	39 47 18.8	93 05 15.2	3,348
Prim Trav Sta No 13 F 1924 1920 Mo 782 (previously described) -----	39 47 19.42	93 04 31.22	3,432

5. FROM SEC. 9, T. 59 N., R. 20 W., NORTH TO SEC. 28, T. 60 N., R. 20 W. (by B. D. Harsha in 1934)

Purdin triangulation sta.; U.S.C. & G.S. standard disk stamped "Purdin" -----	39 57 18.24	93 08 29.05	.....
T. 59 N., R. 20 W., cor. secs. 3, 4, 9, and 10, crossroads -----	39 57 24.9	93 07 54.9	2,743
T. 59 N., R. 20 W., N. cor. secs. 3 and 4, T-rd. S., 120 ft. W. of rd. corner at S. cor. secs. 33 and 34, T. 60 N., R. 20 W. -----	39 58 18.5	93 07 55.6	5,426
Prim Trav Sta No 2 F 1924 (previously described) -----	39 59 10.80	93 07 54.54	5,288

6. FROM SEC. 28, T. 60 N., R. 21 W., SOUTH TO SEC. 17, T. 57 N., R. 21 W., INCLUDING THAT PART OF THE LINE IN CHULA QUADRANGLE (by C. W. Williams in 1936)**

Prim Trav Sta No 51 S 1921 Mo (previously described. See footnote p. 862) -----	39 59 02.13	93 14 51.93	.....
T. 59 N., R. 21 W., N. cor. secs. 3 and 4 -----	39 58 09.8	93 14 53.2	5,297
T. 59 N., R. 21 W., cor. secs. 3, 4, 9, and 10, crossroads -----	39 57 16.4	93 14 53.1	5,400
Rd. at fences E. and W. -----	39 56 50.0	93 14 52.9	2,670
T. 59 N., R. 21 W., 380 ft. N. of quarter cor. between secs. 15 and 16, 25 ft. E. of rd. in line with S. side of dwelling; standard tablet stamped "T 1 W 1936" -----	39 56 01.20	93 14 52.16	4,936
T. 59 N., R. 21 W., cor. secs. 15, 16, 21, and 22, crossroads -----	39 55 31.2	93 14 52.2	3,034
T. 59 N., R. 21 W., cor. secs. 21, 22, 27, and 28, T-rd. W. -----	39 54 38.8	93 14 51.8	5,301
T. 59 N., R. 21 W., cor. secs. 27, 28, 33, and 34, T-rd. N. -----	39 53 46.1	93 14 51.3	5,330

*Published also in Chula quadrangle (see Bull. 916-D).

**Published also as line 7 of the Chula quadrangle (see Bull. 916-D).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 59 N., R. 21 W., quarter cor. between secs. 28 and 33, stone at rd. corner -----	39 53 45.5	93 15 25.3	2,646
T-rd. E. -----	39 53 33.6	93 15 59.4	2,914
T. 59 N., R. 21 W., S. cor. secs. 32 and 33, T-rd. N., 70 ft. E. of T-rd. S. -----	39 52 52.4	93 15 59.1	4,163
Prim Trav Sta No 49 S 1921 Mo (previously de- scribed) -----	39 52 53.40	93 14 50.87	5,324
T. 58 N., R. 21 W., quarter cor. between secs. 3 and 4, rd. corner from E.-S. -----	39 52 25.0	93 14 52.4	2,872
T. 58 N., R. 21 W., cor. secs. 3, 4, 9, and 10, T-rd. W. -----	39 51 59.4	93 14 53.8	2,596
T-rd. E. -----	39 51 33.0	93 14 55.3	2,675
T. 58 N., R. 21 W., cor. secs. 9, 10, 15, and 16, rd. corner from N.-W. -----	39 51 06.7	93 14 56.7	2,661
T. 58 N., R. 21 W., cor. secs. 15, 16, 21, and 22, 30 ft. N. and 3 ft. E. from T-rd. S., in concrete post; standard tablet stamped "T T 2 W 1936" -----	39 50 13.46	93 14 57.44	5,381
T. 58 N., R. 21 W., cor. secs. 21, 22, 27, and 28, rd. at fences E. and W. -----	39 49 19.8	93 14 57.8	5,431
T. 58 N., R. 21 W., cor. secs. 27, 28, 33, and 34, rd. corner from N.-W. -----	39 48 26.2	93 14 58.4	5,419
T. 57 N., R. 21 W., N. cor. secs. 3 and 4, 33 ft. S. and 48 ft. W. from T-rd. S., in concrete post; standard tablet stamped "T T 3 W 1936" -- Chicago, Burlington & Quincy R.R. at rd. -----	39 47 32.61	93 14 56.52	5,422
crossing -----	39 46 50.3	93 14 56.7	4,284
T. 57 N., R. 21 W., cor. secs. 3, 4, 9, and 10, U.S. Highway 36 at crossroad -----	39 46 39.6	93 14 57.0	1,072
T. 57 N., R. 21 W., cor. secs. 9, 10, 15, and 16, T-rd. N. -----	39 45 45.3	93 14 59.3	5,502
T. 57 N., R. 21 W., cor. secs. 8, 9, 16, and 17, E.-W. rd. at rd. S. near crossroads -----	39 45 45.6	93 16 08.1	5,378

7. FROM SEC. 6, T. 59 N., R. 20 W., NORTH ALONG STATE HIGHWAY 5 INTO
MILAN QUADRANGLE (fourth-order traverse by State Highway Department
in 1934)*

Prim Trav Sta No 1 F 1924 (previously de- scribed) -----	39 58 12.76	93 11 06.00	.....
Highway at fence W. -----	39 58 37.1	93 11 33.3	3,250
Lowes Creek, S. end of bridge over -----	39 58 52.1	93 11 28.0	1,569
Highway at fence W. on line between secs. 30 and 31, T. 60 N., R. 20 W. -----	39 59 05.8	93 11 14.1	1,762
Highway at fences E. and W. -----	39 59 32.4	93 11 00.1	2,905
Highway at fences E. and W. on line between secs. 19 and 30, T. 60 N., R. 20 W. -----	39 59 59.2	93 10 46.7	2,900

(Continued in Milan quadrangle; see line 6.)

Magnetic declination 7° 17' E.

*Results not of third-order accuracy.

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet
T. 57 N., Rs. 20 and 21 W., approximate cor. secs. 13, 18, 19, and 24 -----	39 44 53.3	93 11 38.0	(2,665)
Crossroads -----	39 44 53.2	93 12 11.7	2,630
T. 57 N., R. 21 W., cor. secs. 13, 14, 23, and 24, T-rd. S. -----	39 44 53.1	93 12 45.5	2,640

(Continued in Linneus quadrangle; see line 3.)

3. FROM SEC. 22, T. 57 N., R. 19 W., SOUTHEAST INTO MARCELINE QUADRANGLE
AT SEC. 11, T. 56 N., R. 19 W. (by C. R. Fisher in 1924)

T-rd. S. (previously described) -----	39 44 01.3	93 01 37.7	.....
T-rd. E. -----	39 43 22.1	93 01 38.8	3,966
Rd. forks -----	39 43 08.8	93 01 04.4	3,008
T-rd. N. on Chariton-Linn county line -----	39 42 15.0	93 01 06.1	5,440
T. 56 N., R. 19 W., center sec. 10, 35 ft. S. and 15 ft. E. from stone at crossroads, in con- crete post; standard tablet stamped "Prim Trav Sta No 21 F 1924" -----	39 40 53.86	93 01 03.58	8,215
Crossroads -----	39 40 53.4	93 00 30.0	2,630

(Continued in Marcelline quadrangle; see line 1.)

4. FROM SEC. 20, T. 57 N., R. 19 W., SOUTH INTO BRUNSWICK QUADRANGLE AT
SEC. 10, T. 54 N., R. 20 W. (by C. R. Fisher in 1924)

Prim Trav Sta No 11 F 1924 (previously de- scribed) -----	39 44 08.03	93 03 55.05	.....
T. 57 N., R. 19 W., W. cor. secs. 19 and 30, T-rd. E. -----	39 44 11.4	93 04 52.0	4,458
T. 57 N., R. 19 W., W. cor. secs. 30 and 31, T-rd. E. -----	39 43 17.2	93 04 54.1	5,480
Tps. 56 and 57 N., Rs. 19 and 20 W., cor. of, crossroads -----	39 42 24.1	93 04 56.1	5,380
Tps. 56 and 57 N., R. 20 W., approximate cor. secs. 1, 2, 35, and 36, stone -----	39 42 20.8	93 06 04.3	5,339
Tps. 56 and 57 N., R. 20 W., approximate cor. secs. 2, 3, 34, and 35, 42 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 30 F 1924" ---	39 42 18.62	93 07 12.49	5,344
T. 56 N., R. 20 W., cor. secs. 2, 3, 10, and 11, crossroads -----	39 41 24.5	93 07 13.8	5,478
T. 56 N., R. 20 W., cor. secs. 10, 11, 14, and 15 -----	39 40 31.5	93 07 15.2	5,360
T. 56 N., R. 20 W., cor. secs. 14, 15, 22, and 23, 20 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 31 F 1924" -----	39 39 38.25	93 07 17.59	5,395
T. 56 N., R. 20 W., cor. secs. 22, 23, 26, and 27, crossroads -----	39 38 45.3	93 07 19.2	5,357
T. 56 N., R. 20 W., cor. secs. 26, 27, 34, and 35, T-rd. N. -----	39 37 52.3	93 07 20.3	5,371
T. 56 N., R. 20 W., near center sec. 34, 50 ft. N. of gate to yard of dwelling of F. D. Eisele, E. of rd., in concrete post; standard tablet stamped "Prim Trav Sta No 32 F 1924" -----	39 37 24.98	93 07 54.40	3,840
T-rd. S. -----	39 36 59.1	93 07 46.1	2,698
Yellow Creek, N. end of bridge over -----	39 36 14.0	93 07 46.2	4,567
Mendon, Atchison, Topeka & Santa Fe Ry. at Felt Street crossing -----	39 35 39.0	93 06 04.8	3,824
Mendon, in SW. corner of schoolyard, 430 ft. N. of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 33 F 1924" -----	39 35 16.23	93 07 55.54	2,415
T. 55 N., R. 20 W., quarter cor. between secs. 15 and 22, crossroads -----	39 34 18.6	93 07 59.2	5,839
T. 55 N., R. 20 W., quarter cor. between secs. 22 and 27, crossroads -----	39 33 25.1	93 08 01.9	5,419
T-rd. W. -----	39 32 58.6	93 08 03.3	2,660
T. 55 N., R. 20 W., center sec. 34, 20 ft. N. and 20 ft. E. from T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 34 F 1924" -----	39 32 05.05	93 08 06.01	5,420
T. 54 N., R. 20 W., quarter cor. between secs. 2 and 3, T-rd. S. -----	39 31 11.4	93 07 36.0	5,914
T. 54 N., R. 20 W., cor. secs. 10, 11, 14, and 15, 20 ft. N. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 28 F 1924 (in Brunswick quadrangle)*	39 29 54.62	93 07 39.93	7,776

* Published also in Brunswick quadrangle (see Bull. 916-0).

Station	Latitude	Longitude	Distance
	° ' "	° ' "	Feet

5. FROM SALISBURY QUADRANGLE AT SEC. 11, T. 54 N., R. 19 W., WEST TO SEC. 11, T. 54 N., R. 20 W. (by C. R. Fisher in 1924)*

(Continued from Marceline quadrangle; see line 1.)

Crossroads -----	39 29 43.9	93 00 58.1	(5,225)
T. 54 N., R. 19 W., cor. secs. 9, 10, 15, and 16, crossroads -----	39 29 45.4	93 02 06.6	5,370
T. 54 N., R. 19 W., cor. secs. 8, 9, 16, and 17, 1 mi. S. and 1 mi. W. from Indian Grove, 20 ft. N. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 27 F 1924" -----	39 29 47.40	93 03 14.33	5,320
T. 54 N., R. 19 W., cor. secs. 7, 6, 17, and 18, crossroads -----	39 29 48.0	93 04 21.5	5,269
T. 54 N., R. 19 W., W. cor. secs. 7 and 18, T-rd. E. -----	39 29 48.1	93 05 25.9	5,050
T. 54 N., R. 20 W., E. cor. secs. 12 and 13, T-rd. W. -----	39 29 49.0	93 05 26.0	91
T. 54 N., R. 20 W., cor. secs. 11, 12, 13, and 14, T-rd. E. -----	39 29 51.6	93 06 33.2	5,280
Prim Trav Sta No 28 F 1924 (previously described) -----	39 29 54.62	93 07 39.93	5,238

6. FROM SEC. 12, T. 54 N., R. 20 W., SOUTHWEST TO SEC. 11, T. 54 N., R. 20 W., INCLUDING THAT PART OF THE LINE IN BRUNSWICK QUADRANGLE (by B. D. Harsha in 1934)**

Pittman triangulation sta.; U.S.C. & G.S. standard disk stamped "Pittman 1934" -----	39 30 43.07	93 06 13.25	.....
T-rd. W., 250 ft. N. of T-rd. E. at cor. secs. 11, 12, 13, and 14, T. 54 N., R. 20 W. --	39 29 54.3	93 06 33.1	5,178
Prim Trav Sta No 26 F 1924 (previously described) -----	39 29 54.62	93 07 39.93	5,241

7. FROM WHITHAM NORTHWEST ALONG WABASH RAILWAY TO SUMNER (compiled from valuation plats of Interstate Commerce Commission)***

Whitham, crossing of Atchison, Topeka & Santa Fe Ry. -----	39 32 39.0	93 12 12.1	.....
Whitham, crossing corner of Sixth and Main Streets -----	39 33 01.0	93 12 04.6	2,300
R.R. at rd. crossing, 1,444 ft. W. of E. cor. secs. 24 and 25, T. 55 N., R. 21 W. -----	39 33 26.9	93 12 21.7	2,943
Yellow Creek, S. end of bridge over -----	39 34 14.2	93 12 31.2	4,850
R.R. at line between secs. 13 and 24, T. 55 N., R. 21 W. -----	39 34 16.2	93 12 32.1	408
R.R. at line between secs. 12 and 13, T. 55 N., R. 21 W. -----	39 35 11.0	93 12 59.3	5,754
R.R. at rd. crossing on line between secs. 2 and 11, T. 55 N., R. 21 W. -----	39 36 03.2	93 13 28.9	5,770
R.R. at rd. crossing -----	39 36 48.0	93 13 54.2	4,940
R.R. at line between secs. 2 and 35, Tps. 55 and 56 N., R. 21 W. -----	39 36 55.5	93 13 58.4	831
R.R. at line between secs. 27 and 34, T. 56 N., R. 21 W. -----	39 37 48.7	93 14 20.0	5,647
Cunningham, R.R. at rd. crossing -----	39 38 15.3	93 14 26.9	2,741
Cunningham, R.P. at rd. crossing on line between secs. 22 and 27, T. 56 N., R. 21 W. -----	39 36 42.0	93 14 33.8	2,763
Sumner, R.R. at rd. crossing -----	39 39 08.9	93 14 40.9	2,770
Sumner, crossing of Chicago, Burlington & Quincy R.R. (previously described) -----	39 39 25.9	93 14 45.5	1,761

8. FROM WHITHAM SOUTHWEST ALONG ATCHISON, TOPEKA & SANTA FE RAILWAY INTO HALE QUADRANGLE (compiled from valuation plats of Interstate Commerce Commission)****

Whitham, crossing of Wabash Ry. (previously described) -----	39 32 39.0	93 12 12.1	.....
R.R. at rd. crossing, 1,116 ft. N. of S. cor. secs. 35 and 36, T. 55 N., R. 21 W. -----	39 31 54.4	93 13 13.4	6,593
R.R. at rd. crossing, 350 ft. S. of milepost 367-Dean Lake, R.R. at rd. crossing, 800 ft. S. of sta. -----	39 31 43.5	93 13 28.3	1,607
Grand River, E. end of bridge over (in Hale quadrangle) -----	39 31 02.6	93 14 24.4	6,040
	39 30 12.9	93 16 00.1	9,028

Magnetic declination 6° 49' E.

*Line 1 of the Brunswick quadrangle includes a portion of this line (see Bull. 916-G).

**Published also as line 2 of the Brunswick quadrangle (see Bull. 916-G).

***Published also as line 6 of the Hale quadrangle (see Bull. 916-D).

****Line 7 of the Hale quadrangle includes a portion of this line (see Bull. 916-D).