# ALTITUDES IN IOWA

bу

JAMES H. LEES



#### ALTITUDES IN IOWA

### Introductory

For a number of years the Survey has felt the need of a comprehensive list of elevations in the state, both to facilitate its own work and also to supply information to those who wished to know something about the altitudes of different localities. No such list has been available since 1906, when the United States Geological Survey published as its Bulletin 274 the fourth edition of Gannett's Dictionary of Altitudes in the United States. This volume included a large number of elevations in Iowa, most of them determined from railroad profiles, and it has served a most useful purpose. In the nature of the case, however, its use was restricted to a relatively small number of Iowa people, and besides it has been out of print for a number of years. It has been used by the Iowa Survey for giving the elevations of towns which were published in the various county reports.

The list of altitudes given herewith is the outgrowth of an attempt to determine the elevations of a series of localities in western Iowa, including some others than railroad stations. This necessitated the use of railway profiles of the district and the list thus begun has gradually been extended until now it includes all the stations on every large railway system operating in the state and also practically every smaller one, as well as the electric interurban lines.

Sources.—In the work of accumulating the needful railway profiles and determining the altitudes of the different stations and crossings the railway officials have been most helpful. The chief engineers and their corps have not only furnished the profiles for which they were asked but they also have checked the figures of altitudes as measured from those profiles. As a result of this coöperation the Survey has profiles of nearly every railway line in the state and also has corrected lists giving the elevation of practically every railway station in Iowa. Without the help so freely given by the railroad officials this list of altitudes would have been impossible.

Another important source of information was the Results of Spirit Leveling in Iowa From 1896 to 1913, published by the United States Geological Survey in 1915 as Bulletin 569. The descriptions and elevations of bench marks along Mississippi river from Keokuk to New Albin, those along Missouri river from Hamburg to Akron and those along Des Moines river from Keokuk to Des Moines which with some corrections are copied from Bulletin 569 into the present list are from reports by the United States Coast and Geodetic Survey, the Mississippi and Missouri River Commissions and the United States Corps of Engineers. They are the result of precise leveling and have been corrected to agree with the 1912 adjustment of the Coast and Geodetic Survey. The elevations determined by these organizations may be distinguished in this list by the initials of the bureau, usually U.S.C. & G.S. or U.S.C.E. followed by b.m. or p.b.m., in parentheses. They are identifiable also by "Bull. 569" in the Authority column.

Most of the elevations given in Bulletin 569, however, were determined by the United States Geological Survey as a part of its topographic mapping operations in this state. The elevations along the line of the Chicago, Rock Island and Pacific Railway between Council Bluffs and Des Moines are the results of a line of first order levels run in 1905 from the United States Army Engineers' bench mark 348 at Council Bluffs, the cap on an iron pipe in the southwest corner of the courthouse yard, the elevation of which is accepted as 994.335 feet, to the Federal Building (the old Post Office) at Des Moines. The other elevations given in Bulletin 569 for which the U.S. Geological Survey is responsible were the results of third order leveling. All of the United States Geological Survey's determinations which were published in Bulletin 569 are credited in this list by "Bull. 569" in the Authority column. The figures published in Bulletin 569 and republished here have been brought into agreement with the 1912 adjustment of the Coast and Geodetic Survey and therefore should be used in preference to figures marked on bench marks established by the Geological Survey. The elevations in northeastern Iowa are based on bench mark 279 of the Mississippi River Commission, a copper bolt in the northeast corner of the customhouse at Dubuque, the elevation of which is accepted as

644.838 feet above mean sea level. The elevation at Vincennes determined from Chicago, Rock Island and Pacific Railway and United States Corps of Engineers leveling from Keokuk is checked by a single line by the U. S. Geological Survey at St. Francisville, Mo. The other elevations in southeastern Iowa are based on various bench marks established by the Mississippi River Commission and the elevations in western Iowa were based on bench marks of the Missouri River Commission and the Coast and Geodetic Survey. Elevations determined in central Iowa are based on the line of precise levels run from Council Bluffs to Des Moines and on various other U. S. Geological Survey bench marks established in the localities concerned.

The Iowa State College students ran an additional line in the Ames quadrangle in 1911, starting from T. 83 N., R. 24 W., sec. 30 and connecting with Chicago & North Western Railway level bench marks near Ames.

It seems worth while to include in this list the altitudes given by Gannett and so these are given in the Elevation column and are preceded by the letter G. It will be noticed that many of these figures do not quite agree with those credited to the railroads by the present work. There are several facts to account for this. In the first place Doctor Gannett "adjusted" his elevations. That is he attempted to harmonize the figures given by various roads to overcome the discrepancies shown on the different profiles. In the present work, however, no attempt has been made to do this. The figures given here on the authority of the different railroads are just as checked by the engineers of those roads. In the second place some of the roads have resurveyed their lines since the publication of Bulletin 274 and have corrected what mistakes may have been made in earlier surveys. In the third place some of the roads have changed the location of their lines in greater or lesser degree. These three factors are quite sufficient to account for most of the differences in the figures given. Where the differences are large Gannett's figures are not given, as is true also in the case of a very few quite obvious errors, such for instance as the figure of 1800 feet for the Weather Bureau station at Primghar. On the whole the agreement between Gannett's figures and those given by the roads themselves is quite remarkable.

Figures given on authority of the "U.S.G.S.", with no bulletin number following, were for the most part furnished to the Iowa Geological Survey especially for publication here and have not appeared heretofore. A few were taken from Bulletin 274, as indicated in the list, and a few are gathered from other sources, chiefly topographic maps. Of course those taken from Bulletin 274 are not brought into agreement with the 1912 adjustment.

The courtesy of the U. S. Geological Survey in permitting use of its recently determined data in advance of publication in its own reports and also in permitting republication of the data in Bulletins 274 and 569 is greatly appreciated. The latter bulletin is used almost in its entirety in this report.

Figures credited to the Iowa Geological Survey are barometric and were obtained by the authors of the various county reports from which they were taken for this publication.

At the request of the Iowa Geological Survey the engineers of the Des Moines Department of Streets ran a line of levels between the U. S. Geological Survey bench mark on the old Post Office building and the U. S. Corps of Engineers bench mark on Locust Street bridge in order to determine the relation between the two. The Survey is glad to acknowledge this help in its work.

Bench marks.\*—The standard bench marks of the U. S. Geological Survey are of two forms. The first form is a circular bronze or aluminum tablet,  $3\frac{1}{2}$  inches in diameter and one-fourth inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form, used where masonry or rock is not available, consists of a hollow wrought-iron post  $3\frac{1}{2}$  inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. It is split at the bottom and expanded to a width of 10 inches in order to give a firm bearing on the earth. A bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark with abbreviated lettering is used for unimportant points. This consists of a special copper nail,  $1\frac{1}{2}$  inches in length, driven through a copper washer seven-eighths of an inch in diameter.

The tablets, as well as the caps on the iron posts, are appropriately lettered, and State coöperation is indicated by the addition of the State name.

The numbers stamped on the bench marks described in the fol-

<sup>\*</sup> U. S. Geol. Survey, Bull. 569, pp. 6, 7, 85, 86.

lowing pages represent the elevations to the nearest foot, as determined by the levelman. These numbers are stamped with \(^3\)/6-inch steel dies on the tablets or post caps, to the left of the word "feet." The office adjustment of the notes and the reduction to mean sea level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All United States Geological Survey elevations are referred to mean sea level, which is the level that the sea would assume if the influence of tides and winds were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long narrow bays, rivers, and like features will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the halftide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

Other bench marks.—Along Mississippi river the lines of bench marks established by the Mississippi River Commission and called stone lines are placed normal to the river at intervals of about 3 miles and are numbered consecutively from Cairo northward. Each stone line generally consists of four bench marks, two on each side of the river, the one farthest from the river on the left (east) bank being No. 1.

The elevations of the stone-line bench marks were determined by the ordinary leveling by the topographic party, running from the adjacent precise-level bench marks. The discrepancies between the precise and ordinary leveling, between successive precise-level bench marks, have averaged about 0.06 foot.

The bench marks above Alton, Ill., consist of a flat tile 4 inches thick and 18 inches square, with a copper bolt leaded vertically into the upper face at the center. The tile is set about 3 feet below the surface of the ground and is surmounted by a 4-inch iron post 4 feet long, upon which an iron cap is bolted. The words

"Mississippi River Commission" and letters "U. S." are printed on both tile and cap.

Where standard bench marks are not used, descriptions of the marks employed are given. The numbers of Mississippi River Commission bench marks are given in parentheses and refer to the surface mark.

In the descriptions of bench marks of the Missouri River Commission along Missouri river the letters "b.m." refer to permanent bench marks which are designated by fractions, the numerator standing for the number of the bench-mark line counting from the mouth of the river up and the denominator for the number in the line counting from the one on the right bank farthest from the river. The bench marks are similar to those along Mississippi river described above.

The elevations and bench marks along Des Moines river from Keokuk to Des Moines and return were established by the U. S. Corps of Engineers in 1910. The work was done pursuant to an act of Congress and the results were published as a part of Document 1063 of the 62d Congress, 3d session, which was a report of the Corps of Engineers to the Secretary of War on a survey of Des Moines river. The elevations there given were referred to Memphis datum, but as republished in Bulletin 569 and again in part in this list they are brought into agreement with the 1912 adjustment of the Coast and Geodetic Survey.

In 1906 the Chicago, Rock Island and Pacific Railway ran a line of levels along its Des Moines Valley division between Keokuk and Des Moines, establishing bench marks at each mile post. "Elevations are based on U.S.C.E. p.b.m. No. 3, Keokuk. a copper bolt in doorway of Patterson Bldg., elevation 509,559 feet. The levels were run to U.S.G.S. B.M. on the old post office at Des Moines (elevation, 807.351 feet), a distance of 165 miles. The mile monuments are pieces of 60 pound rail, four feet long. set about 3 feet in the ground opposite mile posts, five feet east of the east rail of track." The figures obtained from this leveling have recently been adjusted by the U.S. Geological Survey and as so adjusted are published here and credited to the Rock Island Railway. Originally they differed but little from the figures obtained by the U.S. Corps of Engineers and published in Bulletin 569, as described in the preceding paragraph, where the army engineers followed the railroad, as was the case most of the way between Keokuk and Eddyville. As adjusted the railroad figures are identical with the adjusted figures of the Corps of Engineers. Coincidences of location are indicated in the list by the initials U.S.C.E. b.m. and the bench mark number following the description of the bench mark as given by the railway engineers.

The Corps of Engineers has also used Biloxi, Mississippi, on the Gulf of Mexico, as a datum base. This datum differs from mean sea level as determined by adjustment of precise leveling by various amounts. The Corps of Engineers elevation at Keokuk based on Memphis datum is 7.34 feet above its Biloxi datum and 6.81 feet above mean sea level.

Railroads.—The following list gives the names of Iowa railroads and their abbreviations as shown under the head of Authority in the list of altitudes. Other abbreviations are given in a supplementary list.

```
Atchison, Topeka & Santa Fe Ry.
                                                                A., T. & S.F.
                                                                C.R. & I.C.
 Cedar Rapids and Iowa City Ry.
Charles City Western Ry.
Chicago and North Western Ry.
                                                                C.C.W.
                                                                C. & N.W.
Chicago, Burlington & Quincy RR.
Chicago Great Western RR.
                                                                C., B. & Q.
                                                               C.G.W.
                                                                C., M. & St.P.
*Chicago, Milwaukee and St. Paul Ry.
                                                                C., R.I. & P.
 Chicago, Rock Island and Pacific Ry.
Chicago, St. Paul, Minneapolis & Omaha Ry. Clinton, Davenport & Muscatine Ry.
                                                                C., St.P.,M. & O.
                                                               C., D. & M.
D., R.I. & N.W.
Davenport, Rock Island & Northwestern Ry.
 Des Moines and Central Iowa RR.
                                                                D.M. & C.I.
 Fort Dodge, Des Moines & Southern RR.
                                                                Ft.D., D.M. & S.
 Great Northern Ry.
                                                                G.N.
 Illinois Central RR.
                                                               I.C.
 Iowa Southern Utilities Co.
                                                                I.S.U.
 Manchester & Oneida Ry.
                                                                M. & O.
                                                                M. & St.L.
 Minneaplis and St. Louis RR.
 Tabor & Northern Ry.
                                                                T. & N.
 Wabash Ry.
                                                                W. R.R.
 Waterloo, Cedar Falls & Northern Ry.
                                                                W., C.F. & N.
```

Adj. Adjusted or Adjustment.

B.M. or b.m. Bench Mark.

Bull. 569 Bulletin 569, U.S.Geol.Survey, Spirit Leveling in Iowa,

1896 to 1913.

DBQ. or DUBQ. Dubuque.

G. Gannett's Dictionary of Altitudes, Bull. 274, U.S. Geol.

Survey.

Ia. G.S. Iowa Geological Survey.

M.P. Mile post.

M.R.C.
P.B.M. or p.b.m.
Prim.Trav. Sta.
T.B.M. or t.b.m.
Mississippi River Commission.
Permanent bench mark.
Primary Traverse station.
Temporary bench mark.

U.S.C.E. United States Corps of Engineers.
U.S.C. & G.S. United States Coast & Geodetic Survey.
U.S.G.S. United States Geological Survey.

Ynktn. Yankton.

<sup>\*</sup> On January 15, 1928, this name was changed to Chicago, Milwaukee, St. Paul and Pacific Railway.

Abbreviations for bench marks in some cases are preceded by the initials of the organization doing the work and followed by letters or numbers describing the bench marks.

Some of the locations along the Mississippi at and above Keokuk for which elevations are given are now under water as a result of the building of the Keokuk dam. This also necessitated the raising of the C., B. & Q. RR. track between Keokuk and Montrose.

Some distances are given in the text in terms of meters and kilometers. It will be easy to reduce these to the more familiar units by multiplying meters by 3.28 to reduce them to feet and multiplying kilometers by 0.621 to reduce them to miles. In other words a meter equals 39.37 inches, 3.281 feet, 1.0936 yards; and a kilometer equals 3,281 feet, nearly five-eighths of a mile, or expressed decimally, a little over six-tenths of a mile.

The following railroads, most of which are named in Gannett's Dictionary of Altitudes, have been absorbed by other railroads as indicated or have changed their names. Burlington, Cedar Rapids and Northern Ry. is now part of the Chicago, Rock Island & Pacific Ry. Chicago, Burlington & Kansas City RR., Iowa & St. Louis Ry., Keokuk & Western RR., Kansas City, St. Joseph & Council Bluffs RR., and the St. Louis, Keokuk & Northwestern RR., are now part of the Chicago, Burlington and Quincy RR. Des Moines & Northwestern Ry. is now part of the Chicago, Milwaukee & St. Paul Ry. Iowa Central Ry. is now part of the Minneapolis & St. Louis RR. Sioux City and Northern RR. is now part of the Great Northern Ry. Sioux City & Pacific RR. is now part of the Chicago & North Western Ry. The Interurban Ry. is now the Des Moines & Central Iowa Ry.

The tracks and stations of the Davenport, Rock Island and Northwestern Ry. between Davenport and Clinton are used by the Chicago, Milwaukee & St. Paul Ry. and the Chicago, Burlington & Quincy RR.

The point on the grade of each railway for which elevations of stations and other locations are given is set forth in the list below. Where the original datum was stated by the railway officials it is given in the third column.

A., T. & S.F.	base of rail; east end of depot	U.S.C. & G.S. b.m., 1912 adj.
C.R. & I.C.	top of rail	B.m. of C. & N.W. Ry. at Cedar Rapids.
C.C.W.	base of rail	_
C. & N.W.	base of rail,	Mean Gulf tide, Biloxi, Miss.*
	center of depot	
C., B. & Q.	base of rail	Biloxi datum.
C.G.W.	base of rail	U.S.G.S. b.m.
C., M. & St.P.	top of rail	Level of Lake Michigan = 582 feet above sea level.
C., R.I. & P.	subgrade; add rail,	
,	tie and ballast,	
	1½ to 2 feet	
C., St.P.,M. & O.	base of rail	
C., D. & M.	base of rail	Davenport to Muscatine—Cairo datum; figures are reduced to Memphis datum. Davenport to Clinton—Memphis datum.*
D.M. & C.I.	top of rail	Bull. 569, U.S.G.S.
Ft.D., D.M. & S.	top of rail	Dui: 303, C.B.G.B.
G.N.	top of rail	
I.C.	top of rail, center	
1.0.	of depot	
T. & N.	top of rail	ā
Wabash	base of rail	St. Louis City datum plane = 413.536 feet above mean Gulf level at Biloxi by U.S. C.E. data or 413.969 feet above mean sea level by adjusted data. St. Louis Union Station is 439.244 feet above mean sea level.
W., C.F. & N.	Waterloo to Cedar	
,	Rapids—subgrade	T <sub>4</sub> ''
2	Others—top of rail,	
1	11/2 feet above subgrade	TP.
	•	

Topographic maps.—For a number of years the United States Geological Survey, as a part of its work of mapping the area of the United States, has been making topographic maps of parts of Iowa and since 1907 the Iowa Geological Survey has cooperated in this work of mapping our state. The areas covered by these maps are called quadrangles and are bounded by meridians of longitude and parallels of latitude rather than by political boundary lines. Hence they may include parts of two or three states, as in the case of the Elk Point sheet, which covers parts of Nebraska, South Dakota and Iowa. These maps, in addition to showing natural features, as rivers and lakes, and cultural features, such as towns, public roads and railroads, show by means of contour lines the elevations of the included area. The

<sup>\*</sup> Biloxi datum plane at Keokuk is 0.53 foot above mean sea level, 7.34 feet above Memphis datum plane.

Memphis datum elevations at Keokuk are therefore 6.81 feet greater than mean sea level elevations.

Cairo datum plane at Rock Island is 13.13 feet below Memphis datum plane or 19.94 feet below mean sea level. Elevations above this datum plane are therefore 19.94 feet greater than mean sea level elevations.

contour lines pass through all points having the same altitude, hence their closeness or distance indicates the steepness or flatness of the surface. With the exception of the Fort Dodge, Fort Dodge Special and Lehigh maps all the topographic maps covering parts of Iowa have a contour interval of twenty feet; that is, the interval between contour lines represents a vertical distance of twenty feet on the ground. In the three exceptions the interval is ten feet.

Maps having a scale of 1:62,500 cover an area one-fourth degree or fifteen minutes in length and breadth; that is, one-sixteenth of a square degree. The maps whose scale is 1:125,000 are one-half degree in dimensions and have an area of one-fourth square degree.

With a few exceptions, the maps are published on sheets about 16x20 inches in size. The Omaha and vicinity sheet is 22x32 inches in size and the Camp Dodge sheet is 25x27 inches in size. In many cases an explanation of the map is printed on the back of the sheet.

These maps may be purchased from the Iowa Geological Survey, Des Moines, or from the United States Geological Survey, Washington, D. C.

Name of Map	Counties in Iowa Included	Area in square miles	Scale	Price—cents
Amanaa	Parts of Linn, Johnson, Iowa, Benton	222.50	1:62,500	10
Ames	Parts of Hamilton, Story, Boone		1:62,500	10
	Parts of Linn, Jones		1:62,500	10
	Parts of Jackson, Clinton, Jones	221.65	1:62,500	10
Boone	Parts of Hamilton, Boone, Webster.		1:62,500	10
Camp Dodge	Parts of Polk, Warren, Dallas	496.02	1:62,500	10
	Part of Lyon		1:125,000	10
Coder Renides	Parts of Linn, Johnson		1:62,500	10
Chariton	Parts of Marion, Lucas, Warren	225.06	1:62,500	10
Clinton (Towa-Tll )d	Part of Clinton	222.50	1:62,500	10
	Parts of Clinton, Scott		1:125,000	10
	Part of Scott		1:62,500	10
Decorah	Parts of Allamakee, Clayton, Fay-	220.00	1.02,000	10
20001411 1222111111111111111111111111111	ette, Winneshiek	870.90	1:125,000	10
Des Moines	Parts of Polk, Warren		1:62,500	10
Dewitte	Parts of Clinton, Scott	222.50	1:62,500	10
Durante	Parts of Scott, Muscatine, Cedar	223.36	1:62,500	10
Edgington (IllTowa)	Parts of Muscatine, Scott	224.21	1:62,500	10
Elk Point(S. DakNeb.			1.02,000	••
	Parts of Sioux, Plymouth	877.91	1:125,000	10
Elkader (Iowa-Wis.)	Parts of Dubuque, Delaware, Clayton	877.91	1:125,000	10
Fairfaxa`	Parts of Linn, Johnson, Iowa, Benton	891.73	1:125,000	10
Farleyb	Parts of Dubuque, Jones, Linn, Dela-	]	1	
•	ware		1:125,000	10

•				
Name of Map	Counties in Iowa Included	Area in square miles	Scale	Price—cents
Fort Dodge	Parts of Humboldt, Webster	910.01	1 00 500	
Fort Dodge Special	Part of Webster	219.91	1:62,500	10
Galana (Ill Towa)	Part of Webster	220.35	1:62,500	10
Googa Laka (Towa)	Part of Jackson	221.65	1:62,500	10
Town Citys	Part of ClintonParts of Johnson, Washington	222.50	1:62,500	10
Tohoko (Mo Town III)	Parts of Johnson, washington	223.36	1:62,500	10
	Part of Lee		1:125,000	10
Lancator /Wig Town	Part of Marion	224.21	1:62,500	10
Lancaster (WisIowa-	Donto of Clauster Dollars			
TaClaira (Tama III ) d	Parts of Clayton, Dubuque	877.91	1:125,000	10
Leciaire (lowa-iii.)	Parts of Clinton, Scott		1:62,500	10
	Part of Webster		1:62,500	10
Madrid	Parts of Boone, Polk, Dallas		1:62,500	10
Maquoketac	Parts of Jackson, Clinton	221.65	1:62,500	10
Marioni	Part of Linn	221.65	1:62,500	10
Molehor	Parts of Jones, Cedar, Johnson, Linn Parts of Marion, Monroe, Lucas	222.50	1:62,500	10
Miles (III Town)	Part of Scott		1:62,500	10
Milan (IIIIowa)	Parts of Marion, Warren, Polk	224.21	1:62,500	10
			1:62,500	10
	Part of Jones	221.65	1:62,500	10
Nebraska City (Neb	Part of Fremont	000.70		l
Ochroin	Parts of Clayton, Delaware, Buchan-	226.73	1:62,500	10
Gerwein	an, Fayette	077.01	1 105 000	
Omaha and vicinity	an, rayette	877.91	1:125,000	10
(Nob Town)	Parts of Pottawattamie, Mills	450.00	7 . 60 500	l
Oxforda		459.00	1:62,500	20
Oxtorda	kuk, Iowa	002.26	7 . 60 500	
Pella		223.36 $224.21$	1:62,500	10
Poorte /Town Til \c	Parts of Dubuque, Jackson, Clinton,	224.21	1:62,500	10
reosta (10wa-111.)	Jones	00405	1 105 000	
Pook Toland (Town-TII )	Parts of Clinton, Scott, Muscatine,	884.85	1:125,000	10
Lock Island (lowa-in.)	Cedar, Jones	001.72	1 -105 000	٦,
Savanna (Towa-Til)	Parts of Jackson, Clinton	891.73	1:125,000	10
Shellshurgf	Parts of Linn, Benton	221.65	1:62,500	10
Sletor	Parts of Story, Polk, Boone		1:62,500	10
Stanwooda	Parts of Jones, Cedar, Muscatine,	222.50	1:62,500	10
Noath Anna	Johnson, Linn		1.105.000	_,
Tiptong.	Parts of Jones, Cedar	891.73 222.50	1:125,000	10
Wankee	Parts of Polk, Warren, Madison,	444.50	1:62,500	10
11 & ULC 0	Dallag Warren, Madison,		20.500	
Wankon (Town-Wis	Parts of Allamakee, Clayton		1:62,500	10
West Tiberton	Parts of Cedar, Muscatine, Johnson	870.90	1:125,000	10
Wheetlands	Parts of Clinton, Scott, Cedar, Jones	223.36	1:62,500	10
Wilton Tunations	Parts of Cedar, Muscatine		1:62,500	10
Winthronf	Parts of Delaware, Linn, Benton,	223.36	1:62,500	10
villumropi	Buchanan		1.105.000	٦,
	Duchanan	884.85	1:125,000	10

# LIST OF QUADRANGLES IN IOWA IN WHICH TOPOGRAPHIC MAPPING HAS BEEN WHOLLY OR PARTLY COMPLETED; MAPS NOT YET PUBLISHED

Name of Map	Counties in Iowa Included	Area in square miles	Scale	Price—cents
Albia	Parts of Mahaska, Marion, Monroe Parts of Jasper, Marion, Polk, War-	225.06	1:62,500	10
Bondurant	ren	223.33	1:62,500	10
Coalfield	Parts of Mahaska, Monroe, Wapello	225.06	1:62.500	10
Newton	Parts of Jasper, Marion	223.33	1:62,500	10

Note 1.—The scale of 1:62,500 equals approximately one mile per inch. The scale of 1:125,000 equals approximately two miles per inch.

Note 2.—Fort Dodge Special map is composed of adjacent halves of Lehigh and Fort Dodge maps. Camp Dodge map is composed of Des Moines and parts of Waukee, Madrid and Slater maps.

Note 3.—Folios have been published by the United States Geological Survey describing the geology of Elk Point, Galena and Lancaster quadrangles.

Note 4.—The United States Geological Survey has published a map of Iowa. without contour lines, on a scale of 8 miles per inch. Size of map, 28½x41 inches. Price 25 cents.

a Amana, Cedar Rapids, Iowa City and Oxford sheets, on scale of 1:62,500, have been reduced and form Fairfax sheet, on scale of 1:125,000.

b Anamosa and Monticello sheets, on scale of 1:62,500, have been reduced and form parts of Farley sheet, on scale of 1:125,000.

- c Baldwin and Maquoketa sheets, on scale of 1:62,500, have been reduced and form parts of Peosta sheet, on scale of 1:125,000.
- d Clinton, Goose Lake and LeClaire sheets, on scale of 1:62,500, have been reduced and form parts of Cordova sheet, on scale of 1:125,000.
- e Davenport, Dewitt, Durant and Wheatland sheets, on scale of 1:62,500, have been reduced and form Rock Island sheet, on scale of 1:125,000.
- f Marion and Shellsburg sheets, on scale of 1:62,500, have been reduced and form parts of Winthrop sheet, on scale of 1:125,000.
- g Mechanicsville, Tipton, West Liberty and Wilton Junction sheets, on scale of 1:62,500, have been reduced and form Stanwood sheet, on scale of 1:125,000.

A topographic map of Iowa.—The ultimate purpose of the mapping just described, of course, is to make possible an accurate contour map of the entire state. It is evident, however, from the slow progress thus far made, 22 per cent in forty years, that the realization of this purpose is yet a long way in the future. And yet if such a map will ever be serviceable it surely should be as useful now as a hundred and sixty years from now when, presumably, the state will be covered by topographic maps of the present scales. So it seems to be a worthy undertaking to make, with aid of the topographic maps already available and the railway profiles, which cross the state at intervals of a few miles, a preliminary map which will show the topography of Iowa in a general way. Such a map is presented as a part of this report. The contour

lines, which show the elevations above sea level, are based, first on the published contour maps, so far as they cover the state, and second on the profiles of the railroad lines. A few lines are drawn from barometric data. There seems reason to believe, therefore, that the map represents a reasonable degree of accuracy and the hope may be expressed that it will prove to be of some value until one more correct in its details becomes possible.

Lowest and Highest Points in Iowa.—Probably no question is ever raised as to the lowest point in Iowa. It is the mouth of Des Moines river at Keokuk, about 477 feet above sea level. But there are several claimants for the highest point. Without discussing the relative merits of these localities it may be said that the highest points, so far as yet determined, are Ocheyedan Mound, near Ocheyedan, Osceola county, which is 1670 feet above sea level, and the prairies northeast of Sibley, which have about the same elevation. A hill near Hesper, Winneshiek county, 1360 feet, probably is the highest point in Iowa east of Pilot Knob, Hancock county, 1450 feet above sea level. The highest lakes are Rush lake, near Ocheyedan, 1550 feet; Iowa lake, near Rush lake, nearly 1600 feet; Silver lake, at Lake Park, 1460 feet; and Spirit, East and West Okoboji lakes, 1400 feet.

#### List of Elevations

	ELEVATION	
STATION	FEET	AUTHORITY
Abbott	1103.G1097	M&StL
Abbott Crossing, crossing CRI&P	1110.G1102	M&StL
Abbott Crossing		CRI&P
Abbott Crossing, crossing M&StL	1104	CRI&P
Ackley	1090,G1092	IC
Ackley, crossing M&StL	1093,G1092	IC
Ackley		M&StL
Ackley, crossing IC		M&StL
Ackworth		CB&Q
Ackworth, T. 76 N., R. 23 W., center of NE. 1/4 sec. 10, west		·
side road, opposite T road to east, limestone rock 5 by		
8 by 28 inches, set 27 inches in the ground; aluminum		
tablet stamped ''931 Adi''	930.189	Bull. 569
tablet stamped "931 Adj"		
limestone rock 8 by 8 by 30 inches, set 29 inches in		
ground; aluminum tablet stamped "943 Adj"	941.264	Bull. 569
Acme		CGW
Adair		CRI&P
Adair		Weather Bur.
Adair, 2.5 miles west of, in NW. abutment of bridge, near		
telegraph pole 420-1; aluminum tablet	1,320.798	Bull, 569
Adair, 150 feet south of track, opposite point 375 feet	_,,,_,,,,	Dan 000
east of station, 300 feet SW. of Davenport Elevator		
Co.'s elevator; iron post		Bull. 569
Adair, in front of CRI&PRy station; top of rail	1,404.2	Bull. 569
Adair, 3 miles east of, in SW. abutment of bridge 402;	-,	Dum 000
aluminum tablet	1,273,002	Bull. 569
Adams		CRI&P
Adaza		CM&StP
Adel		CM&StP
Adel, in SE. cor. courthouse yard, 2 feet from either side		OHUNTI
of angle formed by sidewalks; iron post (Prim. Trav.		
Sta. No. 11)	891.391	Bull. 569
Adelphi		· WRR
Adelphi, 4 miles north of, T. 79 N., R. 22 W., near south		** 1010
corner of secs. 32 and 33, 70 feet west and 15 feet south		
of T-road north, in top of south heading of concrete		

Station	ELEVATION FEET	AUTHORITY
culvert under highway No. 2, Federal highway No. 63;	899.26	USGS
chiseled square, marked "899.3"		obab
foot elm tree; copper nail and washer, marked "847.7" Adelphi, 4 miles north, 2 miles east of, T. 79 N., R. 22 W., near south corner of secs. 34 and 35, 50 feet north and 25 feet east of T-road north, in root on south side of 15-	847.68	USGS
inch maple tree; copper nail and washer, marked "916.2" Adelphi, 3 miles north of, T. 78 N., Rs. 22 and 23 W., near corner of sees. 1, 6, 7 and 12, 40 feet east and 30 feet south of crossroads, in root on SW. side of 16-inch burr	916.17	USGS
oak tree; copper nail and washer, marked "824.8"	824.78	USGS
copper nail and washer marked "836.2"	836.19	USGS
copper nail and washer, marked "877.1"	877.07	USGS
of 1-foot maple tree; copper nail and washer, marked "839.0"	839.02	USGS
forks, 1 foot east of wire fence, in top of concrete post; bronze tablet marked "783.4"	783.43	USGS
ground	782.73	USGS
concrete culvert; chiseled square, marked "778.6"	; •	USGS
vert; chiseled square, marked "789.5"	789.45	USGS
"762.4"	762.39	USGS
Aetna		$^{\mathrm{CB}\&\mathrm{Q}}$
Afton		CB&Q
After Typetion		Weather Bur.
Afton Junction	. 1097 1065 G1109	$^{\mathrm{CB\&Q}}_{\mathrm{CB\&Q}}$
Afton Junction		CGW
Afton Junction, Grand river at.		IaGS
Agency		CB&Q
Ainsworth	690,G700	CRI&P
Akron		CM&StP
Akron, 1.4 kilometers north of, 13 meters south of railway bridge, 6 meters south of road, 15 meters west of railway, 0.5 meter east of pasture fence, 1.6 meters below		
rails; copper bolt in top of stone post lettered "U. S		
B. M.'' (U. S. C. & G. S. b. m. Q)	1,138.640	Bull. 569

#### AKRON-ALBIA

Station	ELEVATION FEET	AUTHORITY
Akron, in front doorsill (jasper) of Akron Savings Bank, 0.47 meter NW. of SE. side of doorway, 0.12 meter SW. of front edge, 0.45 meter above sidewalks; bottom of square hole (U.S.C. & G. S. b.m. R.)	1,146.283	Bull. 569
in cement flush with sidewalk. (U. S. C. & G. S. b. m. city)  Akron, 1.5 kilometers south of, 15 meters west of railway,	1,145.135	Bull. 569
40 feet west of road along track, 6 meters north of road, 2 meters north and 0.5 meter east of SE. cor. cultivated field, 0.4 meter below rails; copper bolt in top of stone	1 196 949	Bull 560
post lettered "U. S. B. M." (Û. S. C. & G. S. b. m. S) Akron, 4 kilometers south of, 13 meters west of railway, 7 meters north of road, 1 meter east of fence, 0.3 meter	1,136.343	Bull. 569
shove rails: iron pine (U.S.C. & G.S. b. m. T)	1,134.841	Bull. 569
Akron, T. 92 N., R. 48 W., sec. 6, NW. cor.; iron post stamped "Ynktn 1140" Albany, sec. 14, T. 93 N., R. 8 W., 1,100 feet north of	1,139.544	Bull. 569
school building; iron post stamped "930 DBQ"	931.737 1322,G1325 957,G959 965	Bull. 569 CM&StP CB&Q M&StL
Albia	960	WRR WRR
Albia, junction with M&StL	$958 \\ 948$	WRR
Albia, cross-over with M&StL	965	ISU
tree; copper nail and washer, painted "798.0"	797.94 803.6	USGS USGS
NW. ¼ sec. 25.  Albia, T. 72 N., R. 17 W., near center of NW. ¼ sec. 25, 75 feet west of T-road south at west end of gate, on south side of road, on south root of 10-inch oak tree;	803.2	USGS
copper nail and washer, painted "812.5"	946.7	USGS
jecting 2 inches, painted "959.8"	959.67	USGS
projecting 3 inches above ground, painted "930.2"	)	USGS
inches; bronze tablet stamped "E.B. No. 3 1924 Iowa" Albia, T. 72 N., R. 17 W., near south sixteenth corner between secs. 19 and 20, on SE. concrete wingwall of steel	926.862	USGS
bridge, at base of center guard rail post; painted square Albia, T. 72 N., R. 17 W., about 0.25 mile east of center of sec. 20, north side of road, on west end of cement culvert across drive leading in to residence of Ira Van	803.90	USGS
Dalen; chiseled square, painted "922.6"	922.46	USGS

	ELEVATION	
Station	FEET	AUTHORITY
Albia, T. 72 N., R. 17 W., about 0.25 mile SW. center sec.		
21, 250 feet east of T-road south, 1 foot east of corner		
fence post on north side of road: 1-inch gas pipe pro-		
jecting 3 inches, painted "942.7"	942.53	USGS
Albia, CB&Q RR crossing at above location, above grade		
of road, base of rail	891.8	USGS
Albia, on west end of third step of north entrance to Mon-		
roe county courthouse; bronze tablet stamped "E.B. No.		
4 1924 Iowa''	968.790	USGS
Albia, reference mark, 25 feet east of P.B.M., on east end		
of lowest step to north entrance to courthouse; chiseled		
square	967.75	USGS
Albia, about 1 block west of CB&Q RR depot at highway		
crossing railroad tracks; top of south rail of south switch	960.0	USGS
Albia, 1 mile NW. of, near center of sec. 16, T. 72 N., R.		
17 W., 120 feet west of road crossing CB&Q RR tracks,		
on south side of road, in root on west side of a 2.5-foot		
tree at east end of row of maples; copper nail and washer, painted "U.S.B.M. 959.1"	050.01	тада
Albia, T. 71 N., R. 17 W., about 0.38 mile east of center of	959.01	USGS
sec. 8, in NW. angle of crossroads, on north end of con-		
crete culvert under road to west; chiseled square, painted		
"U.S.B.M. 952.6"	952.52	USGS
Albia, at NE. cor. town, in N.W. angle of T-road north at	002.02	CDGD
jog, 1 foot south by 3 feet west of corner fence post,		
driven in ground: top of 0.75-inch gas pipe, painted		
driven in ground; top of 0.75-inch gas pipe, painted "U.S.B.M. 954.4"	954.34	USGS
Albia, road crossing M&SL RR near above location; top		
of west rail	937.2	USGS
Albion	937,G929	M&StL
Albion, Iowa river south of	894	M&StL
Alburnette	889 <b>,</b> G891	$\mathbf{IC}$
Alden	1116	C&NW
Alden	1169,G1168	IC
Alexander		M&StL
Alger	831	CM&StP
Algona Algona, crossing under C&NW	1188,61193	CM&StP
Algona, crossing under C&NW	1183	CM&StP
Algona	G1213	Weather Bur.
Algona Algona, crossing over CM&StP	1204,01209	$\begin{array}{c} { m C\&NW} \\ { m C\&NW} \end{array}$
Algona	1210	M&StL
Alleman	1013	FtDDM&S
Alleman, T. 82 N., R. 24 W., cor. secs. 2, 3, 34, and 35	1,017	Bull. 569
Alleman, T. 81 N., R. 24 W., SW. cor. sec. 2; iron post	1,011	Dun ou
stamped ''1010''	1,008.810	Bull. 569
Alleman, T. 81 N., R. 24 W., SE. cor. sec. 10; spike in	2,0001020	
telephone pole, marked "U.S.B.M. 1009"	1,007.38	Bull. 569
Alleman, T. 81 N., R. 24 W., SE. cor. sec. 9; spike in	_,	
telephone pole, marked "U.S.B.M. 985"	983.97	Bull. 569
Alleman, T. 81 N., R. 24 W., NE. cor. sec. 21; iron post		
stamped ''1007''	1,005.593	Bull. 569
Alleman, T. 81 N., R. 24 W., NE. cor. sec. 28; spike in	-	
telephone pole, marked "U.S.B.M. 989"	987.64	Bull. 569
Alleman, T. 81 N., R. 24 W., corner between secs. 35 and		n
36; spike in telephone pole, marked "U.S.B.M. 943"	942.12	Bull. 569
Alleman, T. 81 N., R. 24 W., center of sec. 35, road south	946	Bull. 569
Allendorf	1598	CRI&P
Allerton	1092,61103	CRI&P CGW
Allison		C&NW
Almont	662,G661	OWLY W

# ALMORAL-ALVORD

_	ELEVATION	
STATION	FEET	AUTHORITY
Almoral	. 974.8,G977	CGW
Alta	1514,G1509	IC
Alta		Weather Bur.
Alta Vista		C&NW
Alton, crossing CStPM&O, union station	1303,61299	CSTPM&O
Altona, T. 79 N., R. 23 W., 127 feet north and 74 feet	1909.0	OSIFMWO
west of crossroads at corner of secs. 1, 2, 11 and 12, in		
top of south side of concrete porch of schoolhouse;		
bronze tablet marked "965.9"	965.88	USGS
Altoona, reference mark, 38.5 feet south and 19.5 feet west		
of b. m., in top of SE, cor, concrete foundation for flag		
pole; chiseled squareAltoona, T. 79 N., Rs. 22 and 23 W., near corner of secs.	962.97	USGS
Altoona, T. 79 N., Rs. 22 and 23 W., near corner of secs.		
1, 6, 7 and 12, 30 feet south and 15 feet west of cross-		
roads, in top of west heading of concrete culvert; chiseled square, marked "950.8"		TTOGG
eled square, marked "950.8"	950.80	USGS
Altoona, T. 79 N., Rs. 22 and 23 W., corner of secs. 7, 12,		
13 and 18 at crossroads, 420 feet north and 20 feet west	,	
of, in root on south side of 20-inch maple tree; copper nail and washer, marked "957.6"	957.59	USGS
Altoona, CRI&P Ry, south track of main street crossing;	301.03	CBGB
top of south rail	956.7	USGS
Altoona, 0.47 mile south of, T. 79 N., Rs. 22 and 23 W.,		0.00.00
near corner of secs. 13, 18, 19 and 24, 54 feet south and	ĺ	
24 feet west of cross-roads, in top of concrete post;		
bronze tablet marked "952.3"	952.264	USGS
Altoona, reference mark, 43 feet east and 83 feet north	ı	
of bench mark, in NE. angle of crossroads, top of east	;	
heading of culvert; chiseled square		USGS
Altoona, T. 79 N., R. 22 W., near corner of secs. 17, 18, 19	)	
and 20, 30 feet south and 23 feet east of crossroads, in	1	
top of third step leading to school yard; chiseled square	020.42	USGS
marked "930.4".	930.43	avau
Altoona, T. 79 N., R. 22 W., near corner of secs. 19, 20, 29 and 30, 26 feet east and 30 feet north of crossroads, in	1	
root on west side of 2-foot elm tree; copper nail and		
washer, marked "951.8"	951.76	USGS
Altoona, T. 79 N., R. 22 W., 0.25 mile north of corner of	£	0.00.00
secs. 29, 30, 31 and 32, 20 feet south and 20 feet east of	f	
crossroads, in top of concrete foundation of corner fence	9	
post; chiseled square, marked "941.0"	940.97	USGS
Altoona, 2 miles east of Rising Sun, T. 78 N., Rs. 22 and 23	3	
W., corner of secs. 1 and 6, 27 feet south and 30 feet		
east of T-road south, 100 feet north and 75 feet west of		
D. W. Darr's house, on concrete post; bronze tables	Į.	
stamped "Prim. Trav. Sta. No. 27-L-S,-1924-Iowa-" marked "924.6"	924.583	USGS
Altoona, reference mark, 117 feet S. 10° E of "L.S. No.	2 324.000	abab
27'', top of southwest corner of well platform; chis		
eled square	. 925.50	USGS
Altoona, Keokuk line, B.M. top of monument M.P. 351	969.94	. CRI&P
Altoona, B.M. top of monument M.P. 353	916.77	CRI&P
Altoona, top of rail, center of depot		CRI&P
Altoona, B.M. top of monument Ia. Div. M.P. 348	920.35	CRI&P
Altoona, B.M. top of monument M.P. 356	873.29	CRI&P
Altoona, B.M. top of monument M.P. 357		CRI&P
Altoona, B.M. top of monument M.P. 358	. 872.86	CRI&P
Altoona, B.M. top of monument M.P. 359		CRI&P
Altoona, main line		CRI&P
Alvord		DM&CI GN
2111 VI W	. 1041	GIV

	ELEVATION	
STATION	FEET	AUTHORITY
Amana Amber		$\begin{array}{c} \text{CM\&StP} \\ \text{C\&NW} \end{array}$
Amboy		CRI&P
Ames, main line	917,G922	C&NW
Ames		Weather Bur.
Ames, Campus station	911 912	FtDDM&S FtDDM&S
Ames, T. 83 N., R. 23 W., NE. cor. sec. 8, SW. cor. cross-	912	T (DDIMOS
roads, just inside of fence corner; copper nail in root on north side of box-elder tree, marked "973.8"	972.82	Bull. 569
1/4 sec. 7, NW. cor. schoolhouse yard, SE. cor. road forks south; copper nail in root on west side of 21/2-foot maple	943.62	Bull. 569
tree, marked "944.6"	949.02	Dun. 909
ton townships, NW. cor. crossroads, at fence corner; iron post stamped "940"	939.336	Bull. 569
of NW. ¼ sec. 12, SW. cor. steel highway bridge over Skunk river; painted bolthead on top of steel founda-		D.:11 560
tion pillar, marked "890.1"	889.13	Bull. 569
small bridge just east of second-class road forks south; copper nail in top of piling, marked "889.7"	888.69	Bull. 569
of north main track, marked "917.8"	916.82	Bull. 569
tion of Story and Kellogg St., NE. cor. post-office building, in ground; iron post stamped "922"	920.608	Bull. 569
10, SW. cor. concrete bridge at base of concrete railing at stream crossing; chiseled square, marked "899.9" Ames, T. 83 N., R. 24 W., corner of secs. 3, 4, 9, and 10,	898.95	Bull. 569
center of T road south, on top of star in cover of man- hole of water system; marked "908.2"	907.22	Bull. 569
Ames, T. 83 N., R. 24 W., near SE. cor. sec. 4, on south side of street at T road north leading to College; 10 feet south of manhole; chiseled square on top of west		
end of concrete curbing, marked "937.65"	936.67	Bull. 569
west of College station; top of south rail	913.2	Bull. 569
Iowa State College campus, 250 feet south of flagnole, 550 feet west of west entrance to Agriculture Building, 300 feet NW. of Stanton Memorial Chimes tower; iron		
post stamped "952"  Ames, Iowa State College, 8.5 feet east of SE. cor. Engineering Building, just inside of stone walk; brass plug	•	Bull. 569
cemented in tile (engineering students' bench-mark elevation brought north from near Kelly)	960.019	Bull. 569
NW. cor. concrete bridge over stream, top of base of concrete guard rail; chiseled square, marked "915.1" [Bench marks established by Iowa State Col	914.11 lege student	Bull. 569
Ames, Dairy Farm station, south side of east-west high way, source cut on NW. cor. west head wall of 14-inch	•	
vitrified pipe, 19 feet north of pole A183	975.28	Bull. 569
ground Ames, square cut on NW. cor. west head wall of 2-fool	. 9 <b>74.1</b> 3	Bull. 569
vitrified pipe, 11 feet south of pole A173		Bull. 569

# AMES\_ANKENY

Station	ELEVATION FEET	AUTHORITY
Ames, at SE. cor. Knapp St. and Welch Ave., on letters "St" of the word "St. Paul" on projecting base of cap of fire hydrant	963.60	Bull. 569
Ames, spike in track side of electric-light pole 9 feet south by 24 feet east of pole A156, north side of Knapp St., east of track	964.33	Bull. 569
Ames, spike in pole A145, on side away from the track, 4		Bull. 569
feet above ground, east side of Ridge Ave		
cor. Boone and Ridge Sts., about 1.5 feet above sidewalk Ames, 1.7 feet west of east end of north railing of Boone	945.34	Bull. 569
St. concrete bridge, about 100 feet west of Welch St	932.48	Bull. 569
College  Ames, SE. cor. concrete platform of FtDDM&S RR station, 500 feet north of central building of Iowa State	955.99	Bull. 569
College  Ames, top of track bolt cemented into north end of east back wall of C&NW Ry bridge 566A (railroad eleva-	952.34	Bull. 569
tion 939 33)	936.87	Bull. 569
Ames, SW. cor. south coping of bridge 566; square cut (railroad elevation 929.09)	926.63	Bull. 569
Ames, top of track bolt cemented into north end of east back wall of bridge 565 (railroad elevation 926.99)	924.523	Bull. 569
Ames, b. m. 2, Iowa State College	$913.44 \\ 944.56$	Bull. 569 Bull. 569
Anamosa	828,G829	CM&StP
Anamosa, crossing C&NWAnamosa, crossing CM&StP	$832 \\ 831$	$rac{ ext{CM\&StP}}{ ext{C\&NW}}$
Anamosa	825	C&NW
Anderson		$_{\mathrm{CB\&Q}}$
Anderson	966	IaGS C&NW
Andover, Mo.	$731 \\ 1094$	CB&Q
Andrew, Jackson Co.	870	USGŠ
Andrew, middle Perry Tp	870	USGS
Andrews Road station	853.41	DM&CI
Angus	1026,G1028	M&StL
Anita, 3 miles west of, in north abutment of concrete cul-	1253,G1256	CRI&P
vert, 50 feet south of wagon road near telegraph pole		
428-14; aluminum tablet	1,232.213	Bull. 569
aluminum tablet	1,243.318	Bull. 569
Anita, in front of CRI&P Ry station; top of rail	1,256.9	Bull. 569
south of track, opposite point 300 feet west of station;	1 050 000	TO 11 #40
Apite had of Turkey creek at	$1,\!252.360$ $1236$	Bull. 569 IaGS
Anita, bed of Turkey creek at	1198	IaGS
Ankeny		C&NW
Ankeny	996	FtDDM&S
Ankeny, 2.5 miles east by 1 mile south of, T. 80 N., R. 23 W., SE. cor. sec. 19, 40 feet NW. of center crossroads;	•	
iron post stamped "938 Adj. 1903"	936.837	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Ankeny, Methodist Episcopal Church, in foundation stone		
facing east and 2 feet south of north main-entrance door; aluminum tablet stamped "997 Adj. 1903"	995,799	D.11 500
Ankeny, 1 mile north by 1.5 miles west of, 100 feet west of		Bull. 569
SE. cor. of field, in SE. cor. sec. 9; iron post stamped		
"Prim. Trav. Sta. No. 4"	962.546	Bull. 569
Anthon	1120,G1119	IC
Appanoose, Mississippi river, low water	G502	Miss. Riv. Com.
Appanoose, Mississippi river, high water	G518	Miss. Riv. Com.
Aplington	967,G958	IC
Arbor Hill, Adair Co., W. line SE.14 sec. 18, T. 76 N.,	1069	IaGS
R. 30 W	1068 1060	IaGS
Arbor Hill, SE.14 sec. 21, T. 76 N. B. 30 W.	1038	IaGS
Arbor Hill, SE. ¼ sec. 21, T. 76 N., R. 30 W	988	IaGS
Arbor Hill, SE. 1/4 sec. 26, T. 76 N., R. 30 W	943	IaGS
Arbor Hill, NE. 4 sec. 36, T. 76 N., R. 30 W	940	IaGS
Arcadia	1386,G1425	C&NW
Arcadia, divide 1 mile east	1402	C&NW
Arcadia, uplands just north of	$1430 \\ 1476$	IaGS IaGS
Archer	1475 G1468	IC
Ardon	747.G749	CM&StP
Aredale		C&NW
Argand, Jones Co., south line of sec., SE. 1/4 SE. 1/4 sec.		
4, T. 86 N., R. 4 W., corner of yard at schoolhouse; iron post stamped "977"		
iron post stamped "977"	967.778	Bull. 569
Argyle	669.4,G668	AT&SF
Argyle, 4 miles west, east end bridge over CRI&P, base of rail5	66 O	AT&SF
Argyle, 4 miles west, east end bridge over Des Moines	100.0	Alwar
river5	60.9	AT&SF
Argyle, 4 miles west, bottom Des Moines river		AT&SF
Arion	1138	C&NW
Arion, crossing CM&StP	1138	C&NW
Arion	1143,G1140	IC
Arion, crossing CM&StPArion	1143,G1140	IC CM&StP
Arion, crossing C&NW and IC.		· CM&StP
Arigne 19	270 5 G1267	CGW
Arispe12 Arlington	1112.G1112	CM&StP
Arlington, NE. cor. sec. 28, T. 92 N., R. 7 W.; iron post	,	
stamped ''1080 DBQ''	1,081.171	Bull. 569
Arlington, 4 miles south of, center Putnam Tp	1113	IaGS
Armstrong	1249,G1237	CRI&P
Arnold Arnolds Park		M&StL CM&StP
Arsenal station, Camp Dodge, at pole 540		DM&CI
Arthur	1287.G1287	C&NW
Ascalon		CRI&P
Ascot, MP 501	996,G993	IC
Ascot, T. 76 N., R. 44 W., 352 feet S. 79° 55' E. (mag.)		
from center of sec. 9, on south side of road, on land		
owned by Mr. Corby; copper bolt in tile surmounted by iron pipe (U.S.C.E. b. m. 124/2):		
Genner helt	00215	Bull. 569
Copper bolt		Eun. 509
Ashawa	888,G883	M&StL
Ashawa, T. 78 N., R. 25 W., 40 feet NW. of NW. cor. sec.	,	
8, in corner of school vard: iron post stamped "950".	948.675	Bull. 569
Ashton14	148.9,G1449	CStPM&O

#### ASPINWALL-ATWOOD

·	ELEVATION	
Station	FEET	AUTHORITY
Aspinwall	1380	CM&StP
Aspinwall, divide 2 miles west of	1428	CM&StP
Astor	655 G658	CM&StP CRI&P
Athelstan	69.8.G1069	CGW
Atkins		CM&StP
Atlantic		CRI&P
Atlantic	G1164	Weather Bur.
Atlantic, in grass plat of CRI&P Ry station, 200 feet east of station, 20 feet west of standpipe, 30 feet south		
of main track; iron post	1,159.311	Bull. 569
Atlantic, on east side of south wing of county courthouse,	,	
4 feet above ground; aluminum tablet	1,215.088	Bull. 569
Atlantic, 0.5 mile east of, in SW. abutment of bridge 440,	1,154.720	Bull. 569
375 feet east of road crossing; aluminum tablet	1,134.720	IaGS
Atlantic, bed of Turkey creek, SE. 1/4 sec. 28, T. 76 N.,		
R. 36 W	1136	IaGS
Atlantic, Vista Place	1292	IaGS
Attica, Marion Co., 1.25 miles north of, Tps. 74 and 75 N., R. 19 W., 20 feet west by 10 feet north of corner		
of secs. 2, 3, 34, and 35, east of T road west; iron post		
stamped "Prim. Trav. Sta. No. 2, 1908, 908, Iowa"	906.387	Bull. 569
Attica, T. 75 N., R. 19 W., SE. cor. sec. 32, west and 50		
feet south of center of crossroads, 2 feet east of fence; iron post stamped "824 Iowa".	823.044	Bull, 569
Attica. Tos. 74 and 75 N. R. 20 W., 20 feet south and 25	020.041	Dun. 000
feet west of corner of sec. 1, 2, 35, and 36; iron post stamped "Prim. Trav. Sta. No. 1, 1908, 916, Iowa"		
stamped "Prim. Trav. Sta. No. 1, 1908, 916, Iowa"	914.247	Bull. 569
Attica, one-fourth mile north of, at T road west, NW. angle	915.34	Dull 560
of road junction, in root of 20-inch oak; nail	910.04	Bull. 569
post stamped "Iowa 923, 1913"	922.823	Bull. 569
Attica, 1 mile south of, at Gullion Cemetery, at base of		'
north gatepost, in concrete base; bottom of square cut	925.88	Bull. 569
Attica, 1.9 miles south of, at road forks, 50 feet NE. of mile board "Knoxville 12, Attica 2 miles," 250 feet		
west of Indiana Chapel, in top of osage stump at head		
of drain; copper nail	905.69	Bull. 569
Attica, T. 74 N., R. 19 W., at corner of secs. 22, 23, 26,	001.00	TD11 500
and 27; top of section stone	901.02	Bull. 569
27, at NW. angle T road north, 7.1 feet NW. of corner		
post, in field; iron post stamped "Iowa 868, 1913"		
Prim. Trav. Sta. 11, 1914	867.862	Bull. 569
Attica, T. 74 N., R. 19 W., near center of sec. 26, at highway (covered) bridge over North Cedar creek, in SW.		
cor. bridge floor; top of bolt painted white	746.29	Bull. 569
Attica, T. 74 N., R. 19 W., 0.25 mile south of center of		
sec. 35, on east side of north-south road, on line with		
east-west fence, 10 inches north of telephone pole, in	055 95	Bull. 569
hickory peg; copper nail	855.25	Dun. 509
north. 15 feet south by 15 feet east of center of road		
intersection, 110 feet S.W. of Eldorado Church; iron		
post stamped "Iowa 915, 1913" Prim. Trav. Sta. 10	914.797	Bull. 569
Attica, 4 miles south of, T. 73 N., R. 19 W., at corner of secs. 2, 3, 10, and 11, at T road north, in section stone;		
bottom of square	. 915.25	Bull. 569
Atwood	703,G717	CRI&P
Atwood, crossing C&NW	703,G717	CRI&P

	ELEVATION	
Station	FEET	<b>AUTHORITY</b>
Atwood, crossing CRI&P	. 711	C&NW
Atwood, North Skunk river at	695	IaGS
Auburn'	1232,G1240	C&NW
Audubon	1322,G1297	C&NW
Audubon	1295,G1299	CRI&P
Aurelia	G1301	Weather Bur. IC
Aurora	1124 5 (31125	CGW
Aurora, T. 90 N. R. 8 W., NE, cor. sec. 21, at side of	f	,
Aurora, T. 90 N., R. 8 W., NE. cor. sec. 21, at side o wagon road; iron post stamped ''1063 DBQ''	. 1,063.969	Bull. 569
Austin	1210,G1205	CM&StP
Austin, 1.2 kilometers south of, 1.6 kilometers south of railway bridge over Big Sioux River, 13 meters west of	f	
railway bridge over Big Sioux River, 13 meters west o	f	
railway, 6 meters north of road, 1 meter west of fence	,	
0.8 meter below rails; copper bolt in top of stone pos lettered "U.S.B.M." (U.S.C.&G.S.b.m.E.)	t	TO 11 = 600
lettered "U.S.B.M." (U.S.C.&G.S.D.M.E.)	1,200.313	Bull. 569
Austinville	1005,01000	$^{ m IC}_{ m CB\&Q}$
Avery, T. 72 N., R. 17 W., at SE. cor. SW. ¼ SW. ¼ sec	994.14,000	Ć <b>D</b> @&
1. 4 feet north by 1 foot east of fence corner, in top o	f	
concrete post; bronze tablet stamped "E.B. No. 1	0	
concrete post; bronze tablet stamped "E.B. No. 1 1924 Iowa", painted "U.S.B.M. 917.7"	917.523	USGS
Avery, reference mark, 21 feet west by 5 feet south o	Í	
tablet, in root on east side of 6-inch box-elder tree	;	
copper nail and washer	918.32	USGS
Avoca	113 <b>4,</b> G1137	CRI&P
Avoca, 3 miles NW. of, in SE. wing wall of stone culver	1,100,000	D11 ##0
third step from top; aluminum tablet	1,192.860	Bull. 569
Avoca, in stone water table of Avoca bank, on south side 10 feet from SW. cor.; aluminum tablet	. 1,158.769	Bull. 569
Avoca, near SW. cor. Avoca Hotel, between building an		Dun. 000
sidewalk: iron post	. 1,155.38	Bull. 569
sidewalk; iron post	;- ;-	
inch iron pipe open at top and filled with concrete, i	n	
which is embedded a 34-inch brass pipe	1,165.147	Bull. 569
Avoca, 2 miles east of, in NW. abutment of bridge 459	;	
aluminum tablet	1,171.039	Bull. 569
Avon	780,G783	CRI&P
Ayrshire	1001	M&StL IC
Babcock, south end switch	1001 1154 G1156	M&StL
Badger, 5.5 miles west of, T. 90 N., R. 29 W., quarte corner, S. side of sec. 10, 40 ft. N. of section lin crossing road, on east side of road, in base of telephon pole, marked '1,127.2'; spike.  Badger, T. 90 N., R. 29 W., center of sec. 10, 20 feet NE	110 <del>1</del> ,01100	шихш
corner. S. side of sec. 10. 40 ft. N. of section lin	e	
crossing road, on east side of road, in base of telephon	e	
pole, marked ''1,127.2''; spike	1,127.07	USGS
Badger, T. 90 N., R. 29 W., center of sec. 10, 20 feet NE	2.	
of crossroads; from post stamped "TOWA 1919 Frin	l.	
Trav. Sta. No. 9 1,134''	. 1,133.441	USGS
Badger, T. 90 N., R. 29 W., 0.25 mile west of center of	Í.	
sec. 11, at second class road N., 50 ft. NE. of road for	1 197 00	USGS
in base of telephone pole, marked "1,127.2"; spike Badger, T. 90 N., R. 29 W., quarter corner, E. side of se	1,127.09	avau
11, at T road W., 40 ft. SE. of road fork, in base of	f.	
telephone pole, marked '1.120.8''; spike	1,120.64	USGS
telephone pole, marked ''1,120.8''; spike Badger, 4 miles west of, T. 90 N., R. 29 W., corner of sec	8.	
11 12 13 and 14 50 ft. SE, of crossroads, in base of	f	
corner fence post, marked '1,112.2'; spike	1,112.05	USGS
Badger, bridge floor over Des Moines river, 3.33 miles W	<i>T</i> .	****
of Badger Badger, T. 90 N., R. 28 W., quarter corner, N. side of	1,043.74	USGS
Dauger, 1. 30 N., D. 25 W., quarter corner, N. side (	) [	

# ${\tt BADGER\_BARNUM}$

	ELEVATION	
STATION	FEET	AUTHORITY
sec. 18, at T road S., 50 ft. SE. of road fork, in base of telephone pole, marked "1,131.6"; spike	1,131.43	USGS
Badger, T. 90 N., R. 28 W., corner of secs. 7, 8, 17 and 18,	1,101.10	0,50,5
T road north, 35 ft. NW. of road fork; iron post stamped "IOWA 1919 1,136"		
stamped "IOWA 1919 1,136"	1,136.183	USGS
Badger, T. 90 N., R. 28 W., quarter corner, S. side of sec.		
Badger, T. 90 N., R. 28 W., quarter corner, S. side of sec. 8, T road S., 60 ft. NE. of road fork, in base of telephone pole marked "1,131.6"; spike	1,131.45	USGS
Badger, T. 90 N., R. 28 W., corner of secs. 8, 9, 16 and	,	
17. crossroads, 375 ft. E. of road fork, at base of bridge		
floor and at extreme NW. corner of steel bridge over Badger creek; top of bolt in steel girder, marked		
"1,117.8"	1,117.62	USGS
Badger, T. 90 N., R. 28 W., corner of secs. 9, 10, 15 and	,	
16, 100 ft. E. of road leading N. at road leading S., 300		
ft. W. of railway crossing, 30 ft. SW. of road fork, in base of telephone pole, marked "1,143.4"; spike	1,143.30	USGS
Badger. 1 mile east of. T. 90 N., R. 28 W., corner of secs.	1,140.00	OBOB
Badger, 1 mile east of, T. 90 N., R. 28 W., corner of secs. 10, 11, 14 and 15, 35 ft. SW. of crossroads, iron post		
stamped "Prim. Trav. Sta. No. 14 1,132 IOWA 1919"	1,131.608	USGS
Badger, T. 90 N., R. 28 W., corner of secs. 11, 12, 13 and 14, 40 ft. NE. of crossroads, in base of corner fence		
post, marked "1,151.8"; spike	1,151.64	USGS
Badger T. 90 N. Rs. 27 and 28 W., corner of secs. 7, 12,	-	
13 and 18, 35 ft. NW. of crossroads, in fence corner, in root of large willow tree, marked "1,131.7"; copper bolt	1 101 54	TTOCO
Badger, T. 90 N., R. 27 W., corner of secs. 7, 8, 17 and	1,131.54	USGS
18, 30 ft. NW. of crossroads, in top of concrete culvert,		
marked ''1.125.7''; chiseled square	1,125.50	USGS
Badger, T. 90 N., R. 28 W., quarter corner, N. side of sec. 29, at T road E., 75 ft. N. of road fork, E. side, N. end		
and top of concrete culvert railing over Badger creek;		
chiseled square, marked '1,088.3'	1,088.18	USGS
chiseled square, marked ''1,088.3''	,	
20, 40 it. Sw. of crossroads, in base of corner tence		TTOCO
post, marked "1,131.7"; spike	1,131.62	USGS
CM&StP Ry, 500 meters above milepost 76-85, opposite		
upper end of small curve which is second one above a		
perpendicular rock cut, and curves toward bluffs, 37		
meters above Government light, 3 meters from center		
of track toward bluffs, rock is 0.6 meter higher than track and is marked "U.S." in large letters on side fac-		
ing track: copper holt in rock (IISCEhm. 193/3)	630.90	Bull. 569
Bagley, Guthrie Co	1098,G1100	CM&StP
Bailey	284.8,G1283	CGW IC
Bagley, Guthrie Co.  Bailey	714.G712	C&NW
Balfour1	146.8,G1148	CB&Q
Ballinger, MP 184 Balltown, Dubuque Co., T. 90 N., R. 1 E., south side sec.	530	CB&Q
Balltown, Dubuque Co., T. 90 N., R. I E., south side sec.	1 040 955	Bull. 569
4, in ledge of rock; bronze tablet stamped ''1049 DBQ'' Bancroft	1,049.835 1174.G1189	C&NW
Bankston, Dubuque Co., 0.8 mile south of, T. 89 N., R. 1		• • • • • • • • • • • • • • • • • • • •
W. NE. 4 sec. 16. SW. cor. O'Connor's orchard: iron		T. 11 #40
post stamped "1193 DBQ"Bard	1,194.293	Bull 569 CRI&P
Barnes City	901.G910	CRI&P
Barnes City Barney10 Barney, Clanton creek west of10	051.7,G1047	CG <b>W</b>
Barney, Clanton creek west of	1066	Iags
Barnum	1177,G1174	IC

Cm a my coxy	ELEVATION	A TIMYYODYMYT
STATION	FEET	AUTHORITY
Bartlett	954,G951	CB&Q
Bartlett, T. 70 N., R. 43 W., 45 feet east of NW. cor. NE. 4 of sec. 17, on east side of north-south road; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 115/2)		
Copper bolt	939.57	Bull. 569
Cap on pipe	943.64	Dun. 505
Bartlett, T. 71 N., R. 43 W., not far from center of NE.	010.01	
1/4 NE.1/4 sec. 30, on west side of road running along an		
old river bank; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 116/2):		
Copper bolt	944.99	Bull, 569
Cap on pipe (approximate)	948.98	
Bartlett, 6,522 feet south of station, 1,214 feet south of		
L. M. Gannon's house. 82 feet east of center of public		
road, 45 feet west of railroad; copper bolt in bench-		
mark stone surmounted by iron pipe (U.S.C.E.p.b.m.		
332):		
Copper bolt	938.289	Bull. 569
Cap on pipe	942.305	
Bartlett, 6,486 feet north of station, 46 feet east of		
tracks; copper bolt in bench-mark stone surmounted by		
iron pipe·(Ū.S.C.E.p.b.m. 333):		
Copper bolt	941.553	Bull. 569
Cap on pipe	945.572	
Bartlett, bluffs east of	1190	IaGS
Bassett '	1026,G1029	CM&StP
Batavia	729,G731	CB&Q
Batavia, junction with old main line CB&Q	706	CB&Q
Battle Creek	1196,G1195	C&NW
Baxter, Jasper Co.	100 <b>4,</b> G1000	CGW
Baxter, MP 199, Lee Co	531	CB&Q
Bayard		CM&StP
Bayfield	682,G684	CRI&P
Beacon	701,6752	M&StL
Beacon, subgrade of track opposite center of depot	23.2,0735	CRI&P
Beacon, B.M. top of SE. cor. north pedestal of west pier	724 70	CRI&P
of CB&Q RR bridge Beaconsfield	734.70 1919 (1900	
Beals, M.P. 408	1212,01209	CB&Q IC
Beaman	083 (1084	C&NW
Bear Creek		CM&StP
Beaver		C&NW
Beaver Avenue station		DM&CI
Beaver Park station on electric railroad, at crossing;	000.00	
top of rail	909.86	Bull. 569
Beaver Park	911.54	DM&CI
Beaver Valley Junction, Des Moines.	808.57	DM&CI
Beck	560,G559	CB&Q
Beck, crossing under Santa Fe.	556.G559	CB&Q
Beckwith	777,G777	CB&Q
Bedford109	9.59,G1098	CB&Q
Bedford, state line	1054	CB&Q
Beech	878	CRI&P
Belfast, 1 mile south of, B.M. top of monument M.P. 19		
(U.S.C.E.b.m. 5)	532.10	CRI&P
Belfast, 100 feet east of, B.M. top of monument M.P. 20		
Belfast, 100 feet east of, B.M. top of monument M.P. 20 (U.S.C.E.b.m. 6) Belfast, top of rail, center of depot	526.79	CRI&P
Belfast, top of rail, center of depot.	527.0	CRI&P
Belfast, 1 mile NW. of, B.M. top of monument M.P. 21		A
(U.S.C.E.b.m. 7)	530.57	CRI&P

STATION	ELEVATION FEET	AUTHORITY
Belfast, 2 miles NW. of, B.M. top of monument M.P. 22 (U.S.C.E.b.m. 8) Belfast, 3 miles NW. of, B.M. top of monument M.P. 23	549.35	CRI&P
(U.S.C.E.b.m. 9)	558.43	CRI&P
Belfast, see also Hinsdale Belinda, Lucas Co., T. 73 N., R. 20 W., 0.25 mile north of quarter corner on west side of sec. 20, in NE. angle crossroads, in SW. cor. school yard; iron post stamped ''Iowa 1,000, 1913''	1,000.408	Bull. 569
tion corner, 1.5 feet north of telephone pole, in top of wooden peg; copper nail	. 991.11	Bull. 569
Belinda, 0.5 mile NE. of, at NW. cor. crossroads, at SE. cor. churchyard; iron post stamped ''Iowa, 982, 1913'' Belinda, 0.5 mile north by 0.5 mile west of, opposite center	982.198	Bull, 569
of T road north, 6 feet west of gate, in root of twin- maple tree; copper nail	986.00	Bull. 569
per nail  Belinda, T. 73 N., R. 20 W., at quarter corner on north side of sec. 19, in SW. angle of T road west, 1.5 feet	973.66	Bull. 569
west of corner post, in top of wooden peg; copper nail Belinda, T. 73 N., R. 21 W., just west of quarter corner on south side of sec. 13, at NE. cor. wooden bridge over	999.66	Bull. 569
English creek, in plank; copper nail	892.13	Bull. 569
BelknapBelknap, crossing Wabash	859,G847	CRI&P CRI&P
Belknap	868	WRR
Belknap, crossing CRI&P.	868	WRB
Belknap	G877	Weather Bur.
Bell	1155,G1158	CM&StP
Belle Plaine		C&NW
Belle Plaine	G828	Weather Bur.
BellevueBellevue, junction with Cascade line	616	CM&StP CM&StP
Bellevue, Mississippi river, low water	G578	Miss. Riv. Com.
Bellevue, Mississippi river, high water	G598	Miss. Riv. Com.
Bellevue, B.M. at head of slough	G622	Miss. Riv. Com.
Bellevue, North	631,G631	CM&StP
Bellevue, Golden's wood yard, 0.3 mile below log house at, opposite Island 253, 56 feet from top of bank, 2 feet be-		
low fence on lower side of clearing and upper side of		
woods, which runs at about right angles to river bank, 8		
feet from 10-inch ash tree, blazed facing bench; copper		
bolt set in tile surmounted by iron pipe (U.S.C.E.p.b.m.		
315): Copper bolt	587.722	Bull. 569
Cap on pipe	591.685	15un. 000
Bellevue, 5.5 miles below, at third tree from river of same row of trees where t. b. m. 333 is located, on south side of slough at foot of Island 250, 88 feet from NW. cor. Mr. Golden's log house; copper bolt set in tile and surmounted by iron pipe (U.S.C.E.p.b.m. 313):	002.000	
Copper bolt	589.002	Bull. 569
Cap on pipe	592.972	
Bellevue, 3.5 miles below, on line of CM&StP Ry, 705 feet below stone culvert on which t. b. m. 331 is located, 177 feet below lower side of C. A. Harrington's stone barn,		

Station	ELEVATION FEET	AUTHORITY
40 feet above wooden drain under track, at lower end of small cut, 33 feet east from center of track, 1.5 feet west of east right-of-way fence; copper bolt in tile sur-		AUTHOMIT
mounted by iron pipe (U.S.C.E.p.b.m. 311):  Copper bolt	599.628	Bull. 569
Bellevue, 3.5 miles below, on line of CM&StP Ry track, 250 feet above C. A. Harrington's house, on SW. cor. stone culvert, 3 feet above south side and 3 inches back from west end, marked "US"; highest point in square	) L	
(U.S.C.E.p.b.m. 331)  Bellevue, 2.5 miles below, 0.2 mile below bridge 42K, 0.3 mile below milepost 142-19, on line of CM&StP Ry, 279 feet above sluiceway under track, 12 feet west of center	. 600.412	Bull. 569
of track, on west side of ditch, on natural outcropping of ledge of rock, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 329)  Bellevue, 2 miles below, 558 feet above center of CM&StP	<b>)</b>	Bull. 569
Ry bridge 42K over Duck creek, 148 feet above milepost 142-19, at upper side of highway crossing, at south side of fence running to cattle guard, 20 feet east of center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 309):	; ) •	
Copper bolt	. 609.146	Bull. 569
Bellevue, in lower end of, on river bank, in first building above sawmill, a two-story stone store, owned by M. G. Heiler, at its west front, second door from north end	• •	DII 560
marked "U\s"; copper bolt (U.S.C.E.p.b.m. 308)  Bellevue, in south end of, on line of CM&StP Ry, or bridge 44K over Mill creek, between flour mill and sawmill, on north pier at its east end, marked "U\s";	1 -	Bull. 569
highest point in square (U.S.C.E.p.b.m. 326)	. 608.355 1 7	Bull. 569
S.C.E. old U.S. b.m.)	- 597.033 1	Bull. 569
front of stone store owned by John Baumann, on lower end of water table, 2½ feet above south corner; copper bolt marked "U.S.O.P.B.M." (U.S.C.E.p.b.m. 307)	. 619.297	Bull.\569
Bellevue, in upper part of, on west line of Front St. in NE cor. lot owned by Mrs. Booth, 2 feet south from north side of lot and south side of street; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 305):	1	
Copper bolt	- 622.899	Bull. 569
Bellevue, North, 1 mile above, 40 feet back from high water line on river bank, 45 feet north of bank of creel which is crossed by CM&StP Ry bridge 48K where p.b.m 302 is located, about 984 feet from said railroad, 410 feet below large stone arch culvert under wagon road, 36 feet south from another wagon road winding around south point of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m 303 and 304):	k ) 6 d	
Copper bolt	. 595.734 ;	Bull. 569

Station	ELEVATION FEET	AUTHORITY
top; copper bolt marked "U.S. P.B.M." (U.S.C.E. p.b.m. 302)  Bellevue slough, behind, 262 feet from low-water edge, 1.2 miles below Smiths, 3 miles above North Bellevue, 1,900 feet above bridge 50K, 150 feet below stone culvert on right of way at east fence, but a few feet below t.b.m. 323; copper bolt in tile surmounted by iron pipe (U.S. C.E.p.b.m. 300 and 301):	626.521	Bull. 569
Copper bolt  Cap on pipe  Bellevue, 6 miles below, 50 meters from shore, in wagon road along river, 0.5 meter from east fence and 6 meters south of south fence along east-west wagon road, 100 meters below Mr. Degear's house; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 171/2):		Bull. 569
Copper bolt	616.01 620.02	Bull. 569
Copper bolt		Bull. 569
Copper bolt  Cap on pipe  Bellevue, 0.25 mile below head of Island 249, in timber 15  meters west of large slough, 595.7 meters back of following-described bench mark; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 172/1):	587.96	Bull. 569
Copper bolt	583.08 587.10	Bull. 569
Copper bolt  Cap on pipe  Bellevue, bridge 40K, 55 meters above, 1 meter west of west right of way fence of CM&StP Ry, 60 meters above wagon bridge which is at foot of bluffs where wagon road turns from river and appears to go up bluffs; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 172/3):	58 <b>6</b> .00 590.03	Bull. 569
Copper bolt	604.80 . 608.88	Bull. 569
Copper bolt	626.34 630.36	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
slough; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 174/1):	507 02	Bull. 569
Copper bolt	587.93 591.95	ъш. 505
Cap on pipe	091.90	
from shore, in timber, 300 meters from head of Crooked		
slough; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.b.m. 174/2):		
Copper bolt	588.79	Bull. 569
Cap on pipe	592.79	
Bellevue, 0.5 mile above foot of Island 243, 0.5 meter west		
of west right of way fence of CM&StP Ry, on property		
belonging to Mr. Efferding, on top of 25-foot railroad cut; copper bolt in tile surmounted by iron pipe (U.S.		
cut; copper boit in the surmounted by from pipe (c.s. C.E.b.m. 174/3):		
Copper bolt	637.98	Bull. 569
Cap on pipe	642.02	
Bellevue, 3 miles above, 0.25 meter north of east-west wire	ı	
fence, on very high ridge, 0.8 mile from river, a rocky		
point stands about 0.25 mile north of bench mark on		
property of John Weinert, 20 meters west of a gate, 100		
meters west of jog in wire fence; copper bolt in tile sur-	•	
mounted by iron pipe (U.S.C.E.b.m. 174/4):  Copper bolt	746.96	Bull. 569
Cap on pipe	750.99	Dun. 000
Belmond	1190.G1181	M&StL
Belmond, crossing CRI&P	1190,G1181	M&StL
Belmond, crossing CGW	.1184,G1178	$\mathbf{M\&StL}$
Belmond	.1191,G1184	CRI&P
Belmond, crossing CGW	. 1194	CRI&P
Belmond, crossing M&StL	1186	CRI&P
Belmond, crossing M&StL	181.4,61180	CGM
Beloit	1953 G1949	CM&StP
Beloit, 420 meters north of station, 13 meters west of track	.1200,01242	OHOST
4 meters south of private road to orphan asylum, 1	,	
meter east and 2 meters south of NE. cor. garden plot		
owned by J. Widdy, 1 meter below rails; copper bolt in	1	
top of stone post lettered "U.S.B.M." (U.S.C.&G.S.b.m		
A)	. 1,244.177	Bull. 569
Beloit, 170 meters south of station, 31 meters east of track		
14 meters south of roadway, on a jasper rock, in garder plot, 2 meters south and 1 meter east of NW. cor., 0.		
meter below rails; bottom of square hole (U.S.C.&G.S		
b.m. B)	. 1,246.911	Bull. 569
Beloit, 3 kilometers south of, 13 meters west of railway	7	
track, 4 meters north of private road, 110 meters north		
of trestle over ravine, 1 meter east of fence, 0.3 meter	r	
below rails; copper bolt in top of stone post lettered	1	T 11 F00
"U.S.B.M." (U.S.C.&G.S.b.m. C)		Bull. 569
Ben Clare, S. Dakota		CRI&P
Bennington, top of rim of upstream edge of iron casing	. 141,0142	OWINI
tube of second pier from north end of highway bridge	9	
near Morgan Valley on Wabash RR (U.S.C.E.b.m. 59)	752.28	USGS
Bennington, T. 78 N., R. 21 W., at corner of secs. 26, 27	<b>'</b> ,	
34 and 35, 80 feet north and 20 feet east of T-road west	<i>;</i> )	
in root on west side of 18-inch elm tree; copper nail and	d #61.00	TTOO
washer, marked "791.8"	. 791.92	USGS
33 and 34, 30 feet south and 25 feet west of T-roa	ď	
on war or, on took bound with To teek Mesk of T. Low		

# BENNINGTON-BERWICK

	ELEVATION	
STATION	FEET	AUTHORITY
south, in root on south side of 30-inch elm tree; copper	007 10	тада
nail and washer, marked "827.1"	827.18	USGS
secs. 3, 4, 33 and 34, 35 feet south and 20 feet east of		
crossroads, in root on north side of 30-inch boxelder tree;		
copper nail and washer, marked erroneously "888.3"	885.34	USGS
Bennington, T. 77 N., R. 21 W., at corner of secs. 3, 4, 9		
and 10, 30 feet north and 20 feet west of T-road east,		
in root on NE. side of 16-inch elm tree; copper nail and	701.70	TTGGG
washer, marked "791.6".	791.72	USGS
Bennington, 1.5 miles west of Percy, in south part of W. C. Wilson's yard, 1 foot north of Wabash RB. fence		
at road crossing south to wagon bridge over Des Moines		
river, in top of concrete post; bronze tablet stamped		
"Prim. Trav. Sta. No. 24-L.S1904 reset 1924-Ia."		
(B569, Elev. and descrip, obsolete)	772.989	USGS
Bennington, reference mark, 135 feet S. 20° E. of, at west		
side of north end of river bridge; top of retaining wall;	##D 44	77000
chiseled square	753.66	USGS
Benson	894,0904	CGW
Renton 16	158 8 G1059	CGW
Bentonsport, B.M. top of monument M.P. 38 (U.S.C.E.	700.0,01000	OG W
Bentley 12 Benton 16 Bentonsport, B.M. top of monument M.P. 38 (U.S.C.E. b.m. 22) Bentonsport, B.M. top of monument M.P. 39 (U.S.C.E. b.m. 23)	568.72	CRI&P
Bentonsport, B.M. top of monument M.P. 39 (U.S.C.E.	00011-	0212412
		CRI&P
Bentonsport, top of rail, center of depot; (U.S.C.E.		
b.m. 24)	574.59	CRI&P
Bentonsport, B.M. top of monument M.P. 40 (U.S.C.E. b.m. 25) Bentonsport, B.M. top of monument M.P. 41 (U.S.C.E.	F40.4F	CD74.D
b.m. 25)	569.65	CRI&P
b.m. 26)	577.61	CRI&P
Bentonsport, B.M. top of monument M.P. 42 (U.S.C.E.	911.01	OWIGH
hm 27)	584.84	CRI&P
Bentonsport, B.M. top of monument M.P. 43 (U.S.C.E. b.m. 28)	002.02	OZIZEZ
b.m. 28)	578.22	CRI&P
Bentonsport, top of upstream end of first pier from north		
end of highway bridge (U.S.C.E.b.m 92)	569.88	Bull. 569
Bentonsville	1086	CB&Q
Berkeley	994,G995	M&StL
Berlin, changed to Lincoln Bernard	090 (3011	CM&StP
Berne		C&NW
Bernhart		CB&Q
Bertram	717,G716	C&NW
Bertram, top of rail on east line of sec. 29, Tp. 83, R. 6,	,	
90 feet south of NE. cor. NE. 1/4 SE. 1/4 sec. 29	772.81	CR&IC
Bertram, top of rail on south line sec. 28, Tp. 83, R. 6,		
600 feet west of SE. cor. sec. 28.  Bertram, top of rail on east line sec. 34, Tp. 83, R. 6, 650	792.11	CR&IC
Bertram, top of rail on east line sec. 34, Tp. 83, R. 6, 650	#41 D1	CDATC
feet north of SE. cor. sec. 34	741.31	CR&IC
Berwick, 200 feet north of station, east of road, 20 feet	891.9,4840	CGW
north of elm; iron post stamped "841 Adj. 1903"	839.931	Bull. 569
Berwick, 1.6 miles north of, 150 feet SW. of brick house,	000.001	Dan. 000
100 feet NE. of fork of road; iron post stamped "942		
Adj. 1903''	940.889	Bull. 569
Berwick, T. 79 N., R. 23 W., about 0.2 mile west of corner	•	
of secs. 4, 5, 8 and 9, 140 feet east and 20 feet south of		
T-road south, in root on NE. side of 30-inch forked elm		TTGGG
tree; copper nail and washer, marked "858.4"	. 858 <b>.</b> 3 <b>5</b>	USGS

Station	ELEVATION FEET	AUTHORITY
Berwick, CGW RR at road crossing between secs. 4 and 9,		110111011111
T. 79 N., R. 23 W.; top of rail.	898.8	USGS
Berwick, T. 79 N., R. 23 W., near corner of secs. 3, 4, 9		
and 10, 150 feet east and 10 feet south of crossroads,		
near Hammer schoolhouse, on top of south heading of		
concrete culvert; chiseled square, marked "920.0"	920.04	USGS
Berwick, T. 79 N., R. 23 W., near corner of secs. 2, 3, 10		
and 11, 35 feet east and 20 feet south of crossroads, 13		
feet east and 4 feet south of fence corner, in root on SW.		
side of 16-inch walnut tree; copper nail and washer, marked "960.3"		~~~
marked ''960.3''	960.35	USGS
Bethany Junction		CB&Q
Bettendorf	575	CM&StP
BettendorfBettendorf, DRI&NW station	$572.00 \\ 572.5$	CD&M
Bettendorf, Union Station	G565	${ m CB\&Q} \ { m DRI\&NW}$
Bettendorf, crossing CM&StP	G568	DRI&NW
Beverly	736	C&NW
Beverly, crossing CM&StP	737	C&NW
Beverly, crossing C&NW		CM&StP
Bevington	840,G847	CRI&P
Bevington, Middle river at		IaGS
Beulah		CM&StP
Bidwell	718,G720	CM&StP
Big Mound, Lee Co	748	IaGS
Big Rock		CM&StP
Bigelow, Minn.		CStPM&O
Bingham	1073	WRR
Birmingham	751	$^{\mathrm{CB\&Q}}$
Blairsburg	1229,61224	IC
Blairstown	838,0839	C&NW
Blakesburg		CM&StP
Blanden Blanden	985	$rac{ ext{WRR}}{ ext{CRI&P}}$
Blencoe	1049 G1049	C&NW
Blencoe T 82 N R 45 W at NW cor NE 1/ SE 1/	1042,01040	COLTIT
Blencoe, T. 82 N., R. 45 W., at NW. cor. NE. ¼ SE. ¼ sec. 7, in SE. angle formed by crossroads, on land owned		
by Thorley heirs, 1.5 miles from river bank; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.b.m. 133/3):		
Copper bolt	1,038.19	Bull. 569
Cap on pipe	1,042.26	_
Blencoe, 4.5 miles south of, 165 feet south by 92 feet east	,	
of p.b.m. 372, 1.345 feet south of milepost 28, 46 feet		
east of tracks; copper bolt in bench-mark stone sur-		
mounted by iron pipe (U.S.C.E.p.b.m. 371):		
Copper bolt	1,031.133	Bull. 569
Cap on pipe	1,035.136	
Blencoe, 4.5 miles south of, 1,148 feet south of milepost 28,		
46 feet west of tracks; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m 372 equals	1 001 000	D. 11 FCO
132/4): Cap on pipe	1,031.930	Bull. 569
1,305 feet south of railway bridge 25, 46 feet east of		
tracks; copper bolt in bench-mark stone surmounted by		
iron pipe (U.S.C.E.p.b.m. 373):		
Copper bolt	1,034.132	Bull. 569
Cap on pipe	1,038.134	2 aug. 600
Blencoe, 623 feet north of station, 525 feet west of tracks,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
25 feet north by 58 feet east of NE. cor. Isaac Fleener's		
house; copper bolt in bench-mark stone surmounted by		

	ELEVATION	
Station	FEET	AUTHORITY
iron pipe (U.S.C.E.p.b.m. 374 equals 133/4):		
Copper bolt	1,037.229	Bull. 569
Cap on pipe	1,041.218	35 D: 0
Blencoe, copper bolt in stone north of C&NW station	G1038	Mo. Riv. Com.
Blockton10	958 20 1 (21021	$^{\mathrm{CB}\&\mathrm{Q}}$
Bloomfield		CB&Q
Bloomfield, junction with Wabash	881	CB&Q
Bloomfield	857,G845	$\overline{ ext{WRR}}$
Bloomfield, junction with CB&Q	881	$\mathbf{wr}$
Bloomington, Story Co	1041	IAGS
Blue Grass	796	CRI&P
Blue Grass	803.87	$\mathbf{CD}$
Bluffton, Winneshiek Co., T. 99 N., R. 9 W., SE. cor. sec.		
16, in NE. cor. school yard; iron post stamped "1139	1 120 16	D-11 560
DBQ''		Bull. 569 CRI&P
Bolan	28 7 G1222	CGW
Bonair		CM&StP
Bonaparte, B.M. top of monument M.P. 34 (U.S.C.E.		0
b.m. 18)	561.88	CRI&P
Bonaparte, B.M. top of monument M.P. 35 (U.S.C.E.		
b.m. 19)	560.71	$\mathbf{CRI\&P}$
Bonaparté, top of rail, center of depot (U.S.C.E.b.m. 20)	564.00	CRI&P
Bonaparte, B.M. top of monument M.P. 36	564.11	CRI&P
Bonaparte, B.M. top of monument M.P. 37 (U.S.C.E.	E74 07	CDT&D
b.m. 21)	574.37	CRI&P
taining wall of approach to highway bridge; chisel		
mark (U.S.C.E.b.m. 93)	557.93	Bull. 569
Bondurant	968.0.G964	CGW
Boone		C&NW
Boone, B.M. on station doorsill		FtDDM&S
Boone, crossing over C&NW	1177	FtDDM&S
Boone	1120,G1122	CM&StP
Boone, crossing over C&NW	1130,G1112	CM&StP
Boone, T. 83 N., R. 26 W., south center of SE. 1/4 sec. 2,		
east-west crossing CM&StP Ry, on north side of road,		
east side of railroad; spike in base of telephone pole, marked "1140.0"	1,139.10	Dull 560
Boone, Tps. 83 and 84 N., R. 26 W., CM&StP Ry, cross-	1,105.10	Bull. 569
ing township-line road between sec. 2, T. 83 N., and		
sec. 35. T. 84 N., top of rail	1.138.5	Bull. 569
Boone, 1 mile east by 2.5 miles south of, T. 84 N., R. 26	· ·	
W., SE. cor. sec. 34, just north of township line be- tween Des Moines and Worth townships, SW. cor. cross-		
tween Des Moines and Worth townships, SW. cor. cross-	•	
roads, just west of fence corner; iron post stamped		
Boone, 1.5 miles SE. of, T. 84 N., R. 26 W., east center of	1,117.929	Bull. 569
Boone, 1.5 miles SE. of, T. 84 N., R. 26 W., east center of		
sec. 27, SW. cor. crossroads, west end of drain under	•	
road to south; chiseled square on top of stone, marked	1 140 79	Bull. 569
"1141.7" Boone, T. 84 N., R. 26 W., just north of SE. cor. sec. 21	. 1,140.73	ъш. 909
C&NW Ry overhead-crossing road to north on north	<b>,</b> -	
south section line, north entrance of subway, west side	4	
of, at base of abutment, in top of concrete curbing run	•	
ning north; chiseled square, marked "1116.6"	. 1,115.63	Bull. 569
Boone, in grass plot on north side of east entrance to post	-	
office building; iron post stamped "1134"	1,133.406	Bull. 569
Boone, 1 mile north of, NW. cor. sec. 22, T. 84 N., R. 26	5	
W., at fair grounds, SE. cor. crossroads; chiseled square	<del>)</del>	

Continuous	ELEVATION	A
STATION	FEET	AUTHORITY
on top of concrete foundation of manhole of storm sew- er, marked "1140.0"	1,139.08	Bull. 569
Boone, 2 miles north of, T. 84 N., R. 26 W., cor, secs. 9.	2,200.00	Dan. 000
10, 15, and 16, in center of road forks at T road west;		
chiseled square on top of corner stone, marked	7 7 40 00	TO 11 #40
"1141.85", Boone, 3 miles north of, T. 84 N., R. 26 W., NE. cor. sec. 9,	1,140.89	Bull. 569
SW. cor. crossroads, at fence corner; iron post stamped		
(1135)	1,133.829	Bull. 569
Boone, 4 miles north of, T. 84 N., R. 26 W., NW. cor. sec.	,	
3, SE. cor. crossroads, 20 feet SE. of center of roads, 17		
feet NW. of SE. fence corner; chiseled square on top of	1 120 70	D11 560
stone, marked ''1131.8'' Boone, 4.5 miles north of, T. 85 N., R. 26 W., west center of	1,130.78	Bull. 569
sec. 34. SE. cor. crossroads: chiseled square on top of		
stone at fence corner, marked "1138.7"	1,137.75	Bull. 569
Boone, 5.2 miles north of, T. 85 N., R. 26 W., west center		
of SW. 1/4 sec. 27, houses on both east and west sides of road, in front of house on east side of road, on fence		
line east of road, 20 feet south of gate to house; copper		
nail in root of 11/2-foot maple tree, marked "1176.8"	1,175.80	Bull. 569
Boone, 6.1 miles north of, T. 85 N., R. 26 W., east center	,	
of SE. ¼ sec. 21, 0.1 mile north of crossroads, SE. cor.		
schoolhouse yard, west side of road; iron post stamped	1 176 455	D. II 560
Boone, 7 miles north of, T. 85 N., R. 26 W., SE. cor. sec.	1,176.455	Bull. 569
16, NW. cor. crossroads; copper nail in top of north		
end of plank drain under road to west, marked "1137.0"	1,136.01	Bull. 569
Booneville	853,G858	CRI&P
Booneville, 50 feet south of track, in NW. cor. of field,		
opposité point 450 feet west of station; iron post stamped "Prim. Trav. Sta. No. 9"	857.618	Bull. 569
Booneville, in front of CRI&P Ry station; top of rail	856.3	Bull. 569
Booneville, 2 miles east of, in SW. abutment of bridge 353;		
aluminum tablet	845.155	Bull. 569
Border Plains	$1090 \\ 1292$	FtDDM&S
Botna		C&NW CGW
Bouton		CM&StP
Bowsher station, 0.8 mile south of, bridge over Four Mile	•	
creek, in south side of east abutment: aluminum tablet	010 000	D.11 500
stamped "821 Adj. 1903" Boxholm, B.M. pole No. 908	819.296 $1145.55$	Bull. 569 FtDDM&S
Boyd, Butler county	899	IC
Boyd, Chickasaw county Boyden		CGW
Boyden	1418,G1424	CM&StP
Boyer	1217	C&NW
Braddyville, Iowa-Mo. state line	964	${ m CB\&Q}$
Bradford	1243	CRI&P
Bradgate	11 <b>22,</b> G1123	C&NW
Brady		DM&CI
Brandon, switch at Line St. crossing, subgrade	909,G919 819.10	CRI&P WCF&N
Brayton	019.10 1207. <b>G1</b> 209	CRI&P
Brazil	906 <b>,</b> G933	CB&Q
Brazil, crossing CM&StP	G955	$^{\mathrm{CB}\&\mathrm{Q}}$
Breda		C&NW
Bricker, base of rail opposite E. end depot	$1032.9 \\ 567.4$	CGW
	001.4	AT&SF

·	ELEVATION	
Station	FEET	AUTHORITY
Bricker, 1 mile east of, east end of bridge over CB&Q.		
base of rail	576.6	AT&SF
Bricker, square cut in north concrete bridge seat, east		
abutment, bridge over CB&Q	573.54	AT&SF
Bridgeport, Jackson Co.	640	USGS
Bridgewater118	39.88,G1188	CB&Q
Bridgewater, SE. 1/4 sec. 34, T. 75 N., R. 33 W	1198	IaGS
Bridgewater	1155	IaGS
Brighton	750,G743	M&StL
Brighton, crossing over CRI&P	755,G747	M&StL
Brighton, crossing, CRI&P track	729, <del>G</del> 722	M&StL
Brighton, crossing CB&Q	751	${ m M\&StL}$
Brighton	722	CRI&P
Brighton, crossing M&StL and CB&Q	722	CRI&P
Brighton	740	$^{\mathrm{CB\&Q}}$
Brighton, crossing CRI&P	744	CB&Q
Brighton, crossing, CRI&P track	722	CB&Q
Brighton, Skunk river north of	613	IaGS
Briscoe, Adams Co., top of mine shaft at	1135	IaGS
Briscoe, Nodaway river bed at Fox quarries, SW. 1/4 sec.		
31, T. 74 N., R. 35 W.	1102	IaGS
Bristow		CGW
Britt	1229,G1234	CM&StP
Britt, crossing M&StL	. 1207	CM&StP
Britt		M&StL
Britt, crossing CM&StP		M&StL
Brogan	1232	IC
Bromley		M&StL
Brompton		CM&StP
Bronson		C&NW
Brooklyn		CRI&P
Brooks1		CB&Q
Browns, main line	080,0080	CM&StP
Browns, Elk River Junction line	676	CM&StP
Bruce, Minn.		IC
Brunsville		C&NW
Brushy, T. 88 N., R. 27 W., cor. secs. 8, 9, 16 and 17, 120		FtDDM&S
feet north of sec. cor. and directly in front of dwell-		
ing, on west edge of road, on steel base of mail box post		
marked '1,103.5'; chiseled notch	1,103.36	USGS
Brushy, interurban railway and highway crossing at, 100	1,100.00	abau
feet north of crossing, on east side of highway, in front		
end of and south side of church, 2 feet west of and 0.5		
foot lower than front door, 1.5 feet above ground; bronze		
tablet set in concrete, stamped "Towa 1919 1,106"	1,106.388	USGS
Brushy, railroad crossing, 0.45 mile south of, 280 feet	1,100,000	abab
south of T road west, on east side of road, in front end	•	
of concrete walk to house, marked "1,095.4"; chiseled	Ī	
square	1,095.23	USGS
Brushy, T. 88 N., R. 27 W., cor. secs. 20, 21, 28 and 29, 90		CDCD
feet south of center of crossroads, on west side of north		,
and south road, in base of telephone pole, marked		
"1.100.3": spike	1,100.16	USGS
"1,100.3"; spike Brushy, T. 88 N., R. 27 W., cor. secs. 28, 29, 32 and 33	. 1,100,10	0000
115 feet south of crossroads, on west side of road, or	, i	
fence line, in root of large lone willow tree, marked		
"1,095.2"; copper nail and washer	1,095.04	USGS
Bryant, Clinton Co.	. 771	C&NW
Bryant, Polk Co.	800	WRR
Bryantsburg		CRI&P

	EVATION	A
	FEET	AUTHORITY
Buchanan         74           Buck Grove         123	9,0700 2 (31932	$\begin{array}{c} \text{CRI\&P} \\ \text{CM\&StP} \end{array}$
Buckeye	1154	CRI&P
Buckingham	906	C&NW
Buckingham		
quarter corner on south side of sec. 16, in NW. angle of		
T road north, 4 feet west of corner post; iron post stamped ''Iowa 983, 1913'' 9	000 000	D11 560
Bucknell, T. 72 N., R. 19 W., about 0.25 mile west by 0.10	83.039	Bull. 569
mile south of NE. cor. sec. 16, on east side of road, 10		
feet north of wire gate opening into cornfield, lone red-		
oak tree 2.5 feet in diameter, in top of stump at base		
of tree; copper nail	964.10	Bull. 569
corner on north side of sec. 9, opposite secondary T road		
west, 50 feet NE. of John F. Foley's mail box, 1 foot		
south of telephone pole, in top of peg; copper nail	839.41	Bull. 569
Bucknell, at village, T. 72 N., R. 19 W., at center of sec. 3,		
in NW. angle of road forks, 150 feet NW. of wooden		
bridge over White creek, 6 feet west of corner post; iron post stamped "Iowa 811, 1913"	811.399	Bull. 569
Bucknell, T. 73 N., R. 19 W., at center of sec. 34, in SE.	011.000	Duii. 005
angle of T road east, concrete foundation to corner post:		
center of letter A in "A.B. May 22, 1913"	966.47	Bull. 569
Bucknell, T. 73 N., R. 19 W., at quarter corner on south side of sec. 27, in NW. angle of crossroads, 3 feet NE.		
	964.01	Bull. 569
Bucknell, T. 73 N., R. 19 W., at quarter corner between	501.01	Dun. 000
secs. 22 and 27, at T road west, on section stone; chis-		
eled square	936.90	Bull. 569
Bucknell, 4.5 miles north of, T. 73 N., R. 19 W., sec. 10, at		
quarter corner on south side of, in NW. angle T road, 1.5 feet NE. of corner post, in top of peg; copper nail	863.39	Bull. 569
Bucknell, T. 73 N., R. 19 W., sec. 22, at NW. cor., at T	000.00	Dan. 000
road north, 200 feet SW. of Cedar Center schoolhouse,		
27 feet east by 30 feet south of section corner; iron		
	942.694	Bull. 569
Bucknell, T. 73 N., R. 19 W., sec. 21, at NW. cor., opposite T road north, 18 feet south by 9 feet east of sec-		
tion corner, in top of wooden peg: copper nail	921.97	Bull. 569
tion corner, in top of wooden peg; copper nail		
feet due south of center of south wall of schoolhouse, in		
	<b>909.4</b> 3	Bull. 569
Bucknell, T. 73 N., R. 19 W., at quarter corner between secs. 18 and 19, top of hill; top of quarter corner stone	884.13	Bull. 569
Budd	700.4	CGW
Buena Vista, Clayton Co., see North Buena Vista 626	6,G626	CM&StP
Buena Vista, Lee Co., M.P. 175.7 496	6,G502	$\mathbf{CB\&Q}$
Buena Vista, bridge over Des Moines river, M.P. 175	502	$\mathbf{CB\&Q}$
Buena Vista, on NW. cor. east abutment CB&Q RR bridge		
near mouth of Des Moines river, 2.7 miles from Keokuk. Cross mark 1 foot in from face of abutment (U.S.C.E.		
b.m. 1)	496.63	USCE
Buffalo, union station with CRI&P	558	CM&StP
Buffalo	3, <b>G</b> 559	CRI&P .
Buffalo, 0.8 mile below, on property of W. L. Clark, 1 meter south and 2 meters east of center of SE. ¼ sec.		
21, 400 meters from river; copper bolt in tile surmount-		
ed by iron pipe (U.S.C.E.b.m. 146/3):		
Copper bolt	613.63	Bull. 569
Cap on pipe	617.63	

	ELEVATION	
STATION	FEET	AUTHORITY
Buffalo, on William Karge's brick store and post-office building, in east side near SE. cor., 3 feet above founda- tion, at NW. cor. Hecker and Second Sts.; brass bolt (U.S.C.E.p.b.m. 36)	565.438	Bull. 569
Buffalo, 0.5 mile east of, on foundation of brick house of Eliza M. Dodge, in upper foundation stone on west side, near SW. cor., 1 meter from ground, 100 meters north of CRI&P RR; brass bolt, marked "U.S.P.B.M." (U.	000,100	241. 000
S.C.E.p.b.m, 37)	568.936	Bull. 569
Buffalo Center1	196,G1183	CRI&P
Bullard, M.P. 197	559,G559	$^{\mathrm{CB}\&\mathrm{Q}}$
Burch		CGW
Burch	828	CB&Q
Burchinal	29.7,G1230	CGW
Burdette		CRI&P
Burlington	532.3 G533	CB&Q
Burlington, Union Station	G435	Miss. R. Com. Miss. R. Com.
Burlington, Mississippi R., low water	G511	Miss. R. Com.
Burlington, Mississippi R., extreme high water, 1851	G531	Miss. R. Com.
Burlington	530	CRI&P
Burlington, 3.5 miles south of, on south side of CB&Q RR,		
on north side of stone building known as Patterson's		
grocery near NE. cor., 21/2 feet from ground; copper		~ 11 ~
bolt, marked "U.S.P.B.M." (U.S.C.E.p.b.m. 11)	540.156	Bull. 569
Burlington Island, 15 meters from east shore opposite foot of Two Mile Island, 18.3 meters 165° from 15-inch ash		
tree, 9.2 meters 253° 30' from 30-inch elm tree, 10		
meters 70° from 22-inch elm tree; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 122/1):		
Copper bolt	515.13	Bull. 569
Cap on pipe	519.13	
Burlington, Island 380, 60 meters from head, 17 meters		
from top of bank, 7.4 meters 148° to 41-inch elm tree,		
4.5 meters 235° to 9-inch ash tree; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 122/2): Copper bolt	516.56	Bull. 569
Cap on pipe	520.57	ъш. 309
Burlington Island, at foot of, in field 2 meters north of	020.01	
hedge fence on hill near top, abreast the 4-mile post on		
CB&Q RR, a two-story stone house with red roof is on		
slope of hill about 100 meters from stone; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. "Pat"):		<b>T</b> 11 F40
Copper bolt	638.71 $642.68$	Bull. 569
Cap on pipe		
lowing-described bench mark, on east side of an old		
wagon road, 13 meters 184° to 25-inch elm tree, 10 meters 248° to 18-inch white oak; copper bolt in tile	•	
meters 248° to 18-inch white oak; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 123/1):		
Copper bolt	516.72	Bull. 569
Cap on pipe	520.73	
Burlington Island, on west shore of, on narrow ridge 5		
meters from shore, 3 meters 336° to 12-inch willow tree, 3 meters 29° 30′ to 15-inch willow, 0.7 meter 121° 30′ to		
15-inch willow; copper bolt in tile surmounted by iron	•	
pipe (U.S.C.E.b.m. 123/2):		
Copper bolt		Bull. 569
Cap on pipe	520.96	
Burlington, three-mile post on CB&Q RR, on brow of bluff above, in front of dwelling house, 4.5 meters 308° to 6-		
above, in front of amening nouse, 4.5 meters 308, to 6.	•	

Contract	ELEVATION	
inch hickory, 4.8 meters 128° to 7-inch hickory, 2.5 meters 186° 30′ to 8-inch oak; copper bolt in tile sur-	FEET	AUTHORITY
mounted by iron pipe (U.S.C.E.b.m. 123/3):  Copper bolt	646.99	Bull. 569
Cap on pipe	651.01	ьш. 509
Burlington, in SE. cor. west abutment of bridge, on stone used as bridge seat and in same course of masonry as those upon which plate girder rests; square cut (U.S.C.E.		
b.m. 13 R.B.)	535.90	Bull. 569
water table (U.S.C.E. city b.m. 1)	537.66	Bull. 569
stone door sill (U.S.C.E. city b.m. 2)	538.22	Bull. 569
Burlington, on lower side of round pier to draw span by bridge; high-water mark of 1851.	530.28	Bull. 569
Burlington, inside of upper stone of mouth of sewer empty- ing just below elevator; cut (U.S.C.E. high-water mark		
of 1888)	529.59	Bull. 569
S.C.Ē. high-water marks, 1880, 1881, 1888, 1892, 1892): 1880	527.60	Bull. 569
1881 1888	$528.49 \\ 529.17$	
1892 1892	$529.50 \\ 528.40$	·
Burlington, in upper part of, nearly on line with bench marks 124/2 and 124/3, 4.7 meters 314° to 30-inch cot-		•
tonwood, 7.8 meters 148° 30′ to 8-inch locust, 3.2 meters 48° 30′ to 18-inch elm, in woods on ridge; copper bolt in		
tile surmounted by iron pipe (U.S.C.E. b.m. 124/1):	590 1 <i>6</i>	Dil 500
Cap on pipe	$520.16 \\ 524.16$	Bull. 569
Burlington, in upper part of, on sandy ridge, 25 meters from water's edge at old warehouse levee, 60 meters		
below ferry, landing and about 120 meters from old saw- mill; copper bolt in tile surmounted by iron pipe (U.S.		
C.E.b.m. 124/2): Copper bolt	521.34	Bull. 569
Cap on pipe	525.33	244. 000
lots of Mr. Churchall and Mrs. Foote, 50 meters north of		
tall chimney of waterworks engine house; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 124/3):		
Cap on pipe	633.64 637 <b>.</b> 66	Bull. 569
Burlington, Otter Island, at foot of, near large swamp, 626 meters back of following-described bench mark,		
1.3 meters 46° to 15-inch cottonwood, 8 meters 136° 30′ to 18-inch elm tree, 10.2 meters 292° to 30-inch elm tree;		
copper bolt in tile surmounted by iron pipe (U.S.C.E. b.m. 125/1):		•
Copper bolt	519.79	Bull. 569
Cap on pipe Burlington, Otter Island, at foot of, at head of riprap, 14	523.80	
meters from water's edge, 6.5 meters 303° to 15-inch black oak, 11.5 meters 12° to 24-inch elm tree; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 125/2):		
Copper bolt	520.49 $524.50$	Bull. 569
Burlington, Otter Island, 13 meters west of small slough	0=1.00	

	ELEVATION	
STATION	FEET	AUTHORITY
on, 400 meters above foot of island, 100 meters from	•	
east side of island, 7.4 meters 65° to 18-inch cotton- wood tree, 6 meters 176° 30′ to 15-inch cottonwood; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 125/3):		
Copper bolt	519.06	Bull. 569
Cap on pipe	523.04	
250 meters above point opposite head of Rush Island,		
5.6 meters 149° to 28-inch maple tree, 8.9 meters 232°		
30' to 9-inch maple tree, 7.2 meters 301° to 15-inch maple		
tree; copper bolt in tile surmounted by iron pipe (U.S.		
C.E.b.m. 125/4): Copper bolt	519.58	Dull 560
Cap on pipe	523.58	Bull. 569
Burlington, top of water table, NW. cor. Front and Valley	020.00	
Sts., marked ''537.48''	537.66	Bull. 569
Burlington, CB&Q RR bridge over Mississippi river; chis-		
eled square on top of north wing wall of west abut- ment; marked "U.S.B.M. 542.2"	542.37	Bull. 569
Burlington, CB&Q RR bridge over Mississippi river, on	0±4.01	Duii. 509
south end of bridge seat of west abutment; chiseled		
square cut in top, marked "535.7" (U. S. Corps of	30	
Engineers bench mark)	535.902	Bull. 569
Burlington, West	824	CB&Q CRI&P
Burnside1		M&StL
Burnside, T. 87 N., R. 28 W., cor. secs. 3, 4, 9 and 10, at	•	
road crossing over Crooked creek, on N. edge of road and		
E. end of bridge, 2.5 ft. above bridge floor, in top of	1 100 91	TTGGG
concrete railing, marked '1,100.1'; chiseled square Burnside, T. 87 N., R. 28 W., cor. secs. 2, 3, 10 and 11, 35	1,100.21	USGS
ft. NW. of center of crossroads, at fence corner, in base		
of telephone pole, marked "1,118.9"; spike	1,119.02	USGS
Burnside, T. 87 N., R. 28 W., near cor. secs. 27, 28, 33 and		
34, 550 feet west of center of crossroads, in north side of road, at gate entrance to Mr. L. E. Ruper's barn lot,		
in root of large cottonwood tree (36 inches in diameter);		
copper nail and washer, marked "U.S.G.S. B.M."	1.154.76	USGS
Burnside, T. 87 N., R. 28 W., at cor. secs. 28, 29, 32 and	•	
33, 30 feet NE. of center of crossroads, in north end of	1140.50	<b>***</b>
concrete culvert; chiseled square "T.B.M. 1,149.8" Burr Oak, Winneshiek Co., T 100 N., R. 9 W., quarter	1,149.72	USGS
corner on east side of sec. 21, in SW. corner of Ward	l	
schoolhouse yard; iron post stamped "1213 DBQ"	1,212.773	Bull. 569
Burt	.1177,G1169	C&NW
Bussey		WRR
Bussey	71.32,6873	CB&Q
secs. 19 and 30, 120 feet north of bridge over small		
creek, on west side of road, 10 feet east of right-of-way	•	
fence, in root on east side of a 2-foot birch tree; copper		
nail and washer painted "U.S.B.M. 772.7"	772.64	USGS
Bussey, T. 74 N., R. 17 W., near quarter corner between secs. 18 and 19, 100 feet east of T-road south, on south	l L	
side of road, 10 feet north of fence line, in root on east	-	
side of a 1-foot elm tree; copper nail and washer, paint-		,
ed "U.S.B.M. 812.4"	812.31	USGS
Bussey, T. 74 N., R. 17 W., cor. secs. 17 and 18, 19 and 20, in NE. angle of roads at T-road north, 6 feet north by	•	
0.5 foot west of corner fence post, in top of concrete	,	
	•	

	ELEVATION	<b>4</b> ————————
STATION post; bronze tablet stamped "E.B. No. 8 1924 Iowa",	FEET	AUTHORITY
painted "U.S.P.B.M. 835.1"	835.042	USGS
tablet, in top of a 6-inch hedge stump 2 feet above ground; copper nail and washer	836.68	USGS
NW. angle of roads at T-road west, in top on east side of concrete base to corner fence post; chiseled square, pointed 'TSBM 786.3'	786.22	USGS
Bussey, T. 74 N., R. 17 W., quarter corner between secs. 7 and 8, in NW. angle of crossroads, in top on east side	100.22	0.000
of concrete base to corner fence post; chiseled square, painted "U.S.B.M. 844.6"	844.53	USGS
Bussey, T. 74 N., R. 17 W., quarter corner between secs. 5 and 6, in NE. angle of crossroads, 70 feet north by 1 foot east of corner of right-of-way fence, in top of a 6-inch hedge stump; copper nail and washer, painted "U. S.B.M. 847.2"		
S.B.M. 847.2''	847.15	USGS
Butler	845,G838	M&StL
Butler, crossing CB&Q	840,G833	M&StL
Buxton	831 769	CB&Q C&NW
Buxton, T. 73 N., R. 17 W., cor. secs. 1, 2, 11 and 12, in	100	001111
Buxton, T. 73 N., R. 17 W., cor. secs. 1, 2, 11 and 12, in N.W. angle of crossroads, 10 feet west by 1 foot south		
of fence corner, in top of 6-inch osage orange stump:	0.10.10	
copper nail and washer, painted "U.S.B.M. 843.8"	843.49	USGS
Buxton, Tps. 73 and 74 N., R. 17 W., near cor. secs. 1, 2,		
road south. 4 feet south of corner fence post, in top of		
35 and 36, on county line, in SE. angle of roads at Troad south, 4 feet south of corner fence post, in top of concrete post; bronze tablet stamped "E.B. No. 13 1924		
Iowa'', painted ''U.S.B.M. 849.8''	849.539	USGS
Buxton, reference mark, 60 feet north by 10 feet west of		
tablet, south (5 feet) of fence line, on north side of east		
and west road, in top of 6-inch elm stump; copper nail and washer	849.47	USGS
Buxton, T. 74 N., R. 17 W., near SE, cor. sec. 35, at road	010.11	abab
crossing C&NW Ry; top of east rail	755.5	USGS
Calamus	703,G706	C&NW
Caldwells	1071,G1075	CM&StP
California Junction	1009,61011	C&NW
Blair, Nebr.	G986	USGS
California Junction, high water in Missouri river	G1007	USGS
California Junction, 758 feet east of station, NW, cor. A.		
W. Smith's orchard, 3 feet from each fence, 56 feet		
south of C&NW track; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m 360 equals 127/3):		
Copper bolt	1,002.475	Bull. 569
Cap on pipe	1,006.481	2411, 000
California Junction, 1.8 miles north of station, 70 feet	,	
south of public-road crossing, 44 feet east of tracks;		
copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 361): Copper holt	1,005.293	Bull. 569
Copper bolt Cap on pipe	1,009.306	17uii, 909
California Junction, on left bank of Missouri river, 1.25	,	
miles from river bank, in SW. cor. sec. 25, T. 78 N., R.		
45 W., opposite side of road from H. B. Hendrick's		
house, from which it is distant about 200 feet; copper		

	ELEVATION	<b>.</b>
STATION bolt in tile surmounted by iron pipe (U.S.C.E.b.m.	FEET	AUTHORITY
126/2):		
. Copper bolt	998.47 $1.002.53$	Bull. 569
Cap on pipe	1,002.55 1156.G1151	M&StL
Callender, T. 87 N., R. 29 W., cor. secs. 19, 20, 29 and 30,		
50 feet NE. of center of crossroads, in concrete base of	1 157 44	TTGCG
fence post, marked "1,157.4"	1,157.44	USGS
60 feet SW. of road forks, in base of telephone pole,		
marked "1,159.4"; spike	1,159.45	USGS
Callender, T. 87 N., R. 29 W., cor. secs. 7, 8, 17 and 18, 50 feet NE. of center of crossroads, 2.5 feet south of fence		
corner; iron post stamped "IOWA 1919 1,155"	1,154.994	USGS
Callender, T. 87 N., R. 29 W., quarter corner south side of		
sec. 8 at T road north, 40 feet NE. of road fork, in base of corner fence post, marked "1,155.8"; spike	1,155.82	USGS
Callender, T. 87 N., R. 29 W., quarter corner, north side of	_,	2.535
sec. 8, 50 feet SE. of center of crossroads, in base of corner fence post, marked "1,158.5"; spike	1 150 40	TTGCG
Callender, T. 87 N., R. 29 W., quarter corner, north side	1,158.49	USGS
of sec. 5, 50 feet SE. of center of crossroads, in con-		
crete base of corner fence post, marked "1,155.2";	1155 07	USGS
chiseled pointCallender, T. 87 N., R. 29 W., cor. secs. 4, 5, 32 and 33,	1,155.27	avau
T road north, 50 feet south of road fork, in root of 8-		
inch cottonwood tree, marked "1,152.5"; copper nail	1 150 50	TTOCO
and washer	1,152.52	USGS
at T road east, 35 feet west of road fork, 2 feet east		
of fence line; iron post stamped "Iowa 1919 1,153"	1,153.406	USGS
Calliope	1191,G1189	CM&StP
vator, 18 meters west of railway and 55 meters south of		
station, 0.4 meter above ground, 0.25 meter north of		
south end of foundation wall (pink jasper), at east edge; square hole (U.S.C.&G.S.b.m.H.)	1,181.566	Bull, 569
Calmar	1258,G1262	CM&StP
Calmar, junction with Iowa and Dakota division	1265	CM&StP
Caloma, Marion Co., 2 miles west of, T. 75 N., R. 22 W., NE. cor. sec. 26, in SW. angle of crossroads, 50 feet		
west by 30 feet south of corner; in limestone rock 6 by		
10 by 30 inches, set 28 inches in ground; aluminum tablet		To11 #60
stamped "966 Adj."  Caloma, 1 mile north of, T. 75 N., R. 21 W., NW. cor.	965.179	Bull. 569
sec. 20. at SE, angle of crossroads, limestone rock 8 by		
10 by 24 inches, set 22 inches in ground; aluminum	004 000	TD11 F60
tablet stamped "936 Adj."	934.698 1434.G1430	Bull. 569 IC
Calumet, crossing under C&N W	1454	ĨĊ
Camanche		CRI&P
Camanche	599.00 628	$^{\mathrm{CD}\&\mathrm{M}}$
Camanche	G596	DRI&NW
Camanche		CM&StP
Camanche distillery building, top of upper foundation	986,0398	C&NW
stone on SE. cor., 2 feet above ground; cross cut in		
boards above (U.S.C.E.t.b.m. 16 R.B.)		Bull. 569
Camanche, cut in foundation on east side of warehouse (U. S.C.E. high-water mark, June 25, 1880)	584.53	Bull. 569
	002.00	2011. 500

-	ELEVATION	
STATION	FEET	AUTHORITY
Camanche, in root of first large birch tree 100 meters		
above old sawmill piling at upper end of; nail (U.S.C.E. t.b.m. 17 R.B.)	ETC TT	D11 #40
Camanche, in front of station on branch of CB&Q RR, base	576.77	Bull. 569
of rail (U.S.C.E.b.m.)	597.28	Bull, 569
Camanche, 1 mile north of, 0.5 mile from river, on north-	001120	
south wagon road, 80 meters north of north fence of		
cemetery, on ridge 0.5 meter west of east fence; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 159/4):		
Copper bolt	607.10	D11 560
Cap on pipe	$607.19 \\ 611.21$	Bull. 569
Cambria	1089.G1100	CB&Q
Cambridge	881,G861	CM&StP
Cambridge, crossing over CRI&P	880	CM&StP
Cambridge	853	CRI&P
Cambridge, crossing under CM&StP	854	CRI&P
Cambridge, T. 82 N., R. 23 W., NE. cor. NW. ¼ sec. 10; iron post stamped "942"	940.907	Bull. 569
Cambridge, T. 82 N., R. 23 W., SE, cor. SW, 1/4 sec. 10:	010.001	ъш. 909
Cambridge, T. 82 N., R. 23 W., SE. cor. SW. 1/4 sec. 10; spike in corner post, marked "U.S.B.M. 918"	916.56	Bull. 569
Cambridge, 1 mile NE. of, iron bridge over county ditch,		
top of east abutment of north wing wall; marked $\square$ U.S.		
B.M. 855''	853.32	Bull. 569
Cambridge, in front face of Citizens State Bank; aluminum tablet stamped "872"	870.442	D11 500
Cambridge, in front of CRI&P Ry; top of rail	861.6	Bull. 569 Bull. 569
Cambridge, T. 82 N., R. 23 W., SW. cor. SE. 1/4 sec. 28;	301.0	Duii. 509
spike in telephone pole, marked "U.S.B.M. 884"	882.93	Bull. 569
Cambridge, T. 81 N., R. 23 W., NW. cor. NE. 1/4 sec. 4,		
line between Story and Polk counties: spike in tele-		
phone pole, marked "U.S.B.M. 906"	904.51	Bull. 569
Cambridge, T. 81 N., R. 23 W., NW. cor. NE. 1/4 sec. 9;	000 600	D11 500
iron post stamped "910"	908.698 1228 G1220	Bull. 569 M&St <b>L</b>
Cameron, Dubuque Co.	621,G623	CM&StP
Camp Dodge		DM&CI
Camp Douglas	806.81	DM&CI
Campbell		CM&StP
Canton, Jackson Co.	730	USGS
Canton, S. Dakota, SC&D line	1253 1944 G1946	$rac{ ext{CM\&StP}}{ ext{CM\&StP}}$
Cantril		CB&Q
Capron		M&StL
Capron, crossing CM&StP	1061	M&StL
Capron, crossing CGW	1059	M&StL
Capron	1052,G1050	CM&StP
Capron, crossing M&StL	1052,G1049	CM&StP
Carbon, Adams Co	$\frac{1100}{1060}$	IaGS IaGS
Carbon, Davis county		WRR
Carl, Adams Co.		IaGS
Carlisle		CRI&P
Carlisle, in front of CRI&P Ry station; top of rail	784.2	Bull. 569
Carlisle station, at side of road 200 feet east of tracks,		
limestone rock 8 by 8 by 30 inches, set 28 inches in	701 564	Dyll 500
ground; aluminum tablet stamped "782 Adj."	781.564	Bull. 569
of crossing, limestone rock 8 by 9 by 32 inches, set 30		
inches in ground; aluminum tablet stamped "914 Adj."	912.891	Bull. 569
Carlson	644	CRI&P

	ELEVATION	
STATION	FEET	AUTHORITY
Carnaryon	1252	C&NW
Carnes12		CStPM&O
Carney's Sdg., M.P. 449	1215	IC
Carnforth	806,G808	CRI&P
Carnforth	811	CRI&P C&NW
Carnforth, crossing CRI&P	810.G832	C&NW
Carpenter	1190,G1192	CM&StP
Carroll	1257,G1261	C&NW
Carroll, under crossing CGW		C&NW
Carroll12		CGW
Carroll, crossing over C&NW	G1274	CGW
Carroll, crossing, C&NW tracks	G1251	777 41 TO
CarrollCarroll	G1265 1003	Weather Bur. IC
Carson, union station with CRI&P	1066	$^{10}_{\mathrm{CB\&Q}}$
Carson		CRI&P
Cartersville	1182	C&NW
Cascade, Des Moines Co	535	CB&Q
Cascade, Dubuque Co	831,G832	CM&StP
Cascade, T. 86 N., R. 1 W., NW. 4 sec. 7, junction of road going south; iron post stamped "961"		
going south; iron post stamped "961"	951.797	Bul. 569
Cascade, T. 86 N., R. 2 W., NW. ¼ NW. ¼ sec. 1, on line between secs. 1 and 2, at junction of roads going north	•	
and west; iron post stamped "957"	947.900	Bul. 569
Cascade, hydrant at base of water tower	G865	USGS
Cascade, top course of bridge over North Fork of Ma-	9000	GDGG
quoketa river	G839	USGS
Case Drive station	826.95	DM&CI
Casey	1225,G1228	CRI&P
Casey, 2.8 miles west of, in SW. stone abutment of bridge		
397; aluminum tablet	1,253.485	Bull. 569
Casey, in front of CRI&P Ry station; top of rail	1,228.9	Bull. 569
Casey, in stone foundation of T. J. Burns's store, in south wall, halfway between Main St. and alley; aluminum		
tablet	1,248.979	Bull. 569
Casey, 100 feet south of track, opposite point 300 feet east	1,210.010	Dan: 000
of station, 200 feet northwest of Lutheran Church, 3		
feet east of sidewalk leading to station; iron post	1,223.927	Bull. 569
Casey, SE. 1/4 sec. 31, T. 77 N., R. 31 W	1361	IaGS
Castalia		CRI&P
Castalia	1238,G1243	CM&StP
Castalia, in SW. cor. school yard; iron post stamped "1251 DBQ"	1,251.144	Bull. 569
Castana	1,231.144	C&NW
Cattese		CM&StP
Cattese, 5 miles below Dubuque, 0.5 mile above Ninemile	010,0010	0140001
Island, near south abutment of bridge 86, where t.b.m.		
304 is located, on river end of abutment, lowest course		
of stone, on northeast corner of step, now marked ";;		
highest point in square (U.S.C.E. old U.S.b.m. 24)	591.042	Bull. 569
Cattese siding, near, 5 miles below Dubuque and 0.5 mile		
above head of Ninemile Island, on south abutment of bridge 86, river end, on second course of stone below		
bridge seat, on NE. cor., marked "U S"; highest		
point in square (U.S.C.E.t.b.m. 304)	607.315	Bull. 569
Cattese siding, 1 mile below, 1.3 miles above head of Nine-		
mile Island, on line of CM&StP Ry, directly opposite		
milepost 122-39, on bluff side, 9 feet from center, on		
natural ledge of rock, marked 'UDS'; highest point in square (U.S.C.E.t.b.m. 303)	Q15 054	D11 #40
square (U.S.U.E.t.D.III, 503)	615.054	Bull. 569

`	ELEVATION	
Station	FEET	AUTHORITY
Cattese siding, 72 feet above lower headblock of switch at, 15 feet west from center of side track, in natural ledge of rock marked "UDS," opposite foot of Island 228; highest point in square (U.S.C.E.t.b.m. 302)	617.226	Bull. 569
284-285): Copper boltCap on pipe	613.031 617.030	Bull. 569
Cedar	810	CB&Q
Cedar Falls, CGW crossing at 13th St., top of rail	858.9	WCF&N
Cedar Falls, Main Street station, top of rail	854	WCF&N
Cedar Falls, Normal Hill, top of rail	926.0	WCF&N
Cedar Falls, city datum plane	760.48	
Cedar Falls		CRI&P
Cedar Falls	864,G868	IC
Cedar Falls, crossing CRI&P		IC No.
Cedar Falls, Normal Hill, cor. Normal and 24th Sts	937 <b>G</b> 854	T. R. Warriner Weather Bur.
Cedar Falls Junction	871.4	CGW
Cedar Heights, at Waterloo Ave., top of rail	956.3	WCF&N
Cedar Rapids, Interurban station	820	WCF&N
Cedar Rapids, M.P. 59, subgrade	821.40	WCF&N
Cedar Rapids	731	C&NW
Cedar Rapids, crossing CM&StP	727	C&NW
Cedar Rapids, crossing CRI&P	725	C&NW
Cedar Rapids	729	IC
Cedar Rapids	729,G732	CRI&P
Cedar RapidsCedar Rapids, crossing C&NW	734,0737	CM&StP CM&StP
Cedar Rapids	G733	Weather Bur.
Cedar Rapids, NE. cor. top step, east waiting room door,	0100	Wanter Dur.
C&NW Railway station	733.25	CR&IC
Cedar Rapids, 292 feet north of SE. cor. sec. 14, Tp. 83, R. 7, top of rail at center line of road on east line		
sec. 14	779.81	CR&IC
Cedar Rapids, top of rail on east line sec. 24, Tp. 83, B. 7, 212 feet north of SE. cor. of SE. ¼ of NW. ¼		
sec. 24Cedar Rapids, top of rail on west line of Fourth Ave. and	764.21	CR&IC
Third St. east	732.87	CR&IC
Cedar Rapids, top of rail, crossing of CM&StP and CR&IC main lines	754.40	CR&IC
Cedar Rapids, top of rail on south line sec. 32, Tp. 83, R. 7,		
1625 feet east of SW. cor. sec. 32	782.70	IC
Center Grove, east end side track	<b>7</b> 30	CR&IC
Center Grove, IC, nail in floor of highway bridge over Cat- fish creek	G731	USGS
Center Grove, guard rail of bridge over N. Fork Catfish creek on Delhi road	G735	USGS
Center Junction	907	\ C&NW
Center Junction, crossing under CM&StP	895	C&NW
Center Junction	926,G926	CM&StP
Center Junction, crossing over C&NW	915	CM&StP
Center Point, crossing State St., subgrade	806.41	WCF&N
Center Point, crossing CRI&P, top of rail	813.38	WCF&N
Center Point	811,G819	CRI&P
Centerdale	120,6725	CRI&P

	ELEVATION	
Station	FEET	AUTHORITY
Centerville	1002	CRI&P
Centerville, crossing CB&Q	1000	CRI&P
Centerville	999,G1014	CB&Q
Centerville, crossing CRI&PCenterville, east side courthouse square at interurban stop	1014	CB&Q ISU
Centerville, CB&Q transfer	931	ISU
Centerville, junction Albia and Mystic lines	933	ISU
Centerville	G1013	Weather Bur.
Central City		IC
Chamberlin	893.43	DM&CI
Chancy	595	CM&StP
Chancy Chancy	588 G586	CRI&P DRI&NW
Chapin		M&StL
Chapin	1128	CRI&P
Chariton	1014	CRI&P
Chariton, CB&Q overhead crossing	1036	CRI&P
Chariton, crossing under CB&Q	1009	CRI&P
Chariton Chariton	G1042	CB&Q
Chariton, CRI&P Ry, in front of station; top of rail	1,015.9	Weather Bur. Bull. 569
Chariton, 0.96 mile SE. of, T. 72 N., R. 21 W., at center of	2,010.0	Din. 505
sec. 29, in SE. angle of crossroads, in root of 14-inch		
maple tree; copper nail	1,027.12	Bull. 569
Chariton, 2.3 miles SE. of, near SE. cor. sec. 28, T. 72 N.,		
R. 21 W., on north side of road, 80 feet east of new con-	000.04	T) 11 500
crete bridge, in root of 28-inch maple tree; copper nail	960.64	Bull. 569
Chariton, 3.4 miles SE. of, about 0.2 mile west of the NE. cor. sec. 34, T. 72 N., R. 21 W., on south side of road,		
120 feet SW. of farmhouse, in top of 10-inch osage		
stump; copper nail	1,025.08	Bull. 569
Chariton, 4.2 miles SE. of, T. 72 N., R. 21 W., at quarter	•	
corner on south side of sec. 26, 80 feet west of T road		
north, steel highway bridge over creek, in plank in NE.	020.00	D11 560
cor. bridge floor; copper nail	930.90	Bull. 569
side of road, opposite gate to P. D. Schreck's farmyard,		
2 feet south of pasture gate, in top of peg; copper nail	1,015.89	Bull. 569
Chariton, 4.5 miles east of, T. 72 N., R. 21 W., 0.25 mile	,	
east by 0.25 mile south of center of sec. 24, in NW. angle		
of T road west, 4 feet south of telephone pole, in top	1 007 07	D.11 500
of peg; copper nail	1,007.97	Bull. 569
quarter corner between secs. 25 and 30, at elbow of road		
east to south, in front yard of John Collinson, in root	;	
of 18-inch maple tree on west side of gate; copper nail	1,031.17	Bull. 569
Chariton, T. 72 N., R. 22 W., at SE. cor. sec. 21, in NE.		
angle of crossroads, 1 foot south of corner post, in top	00440	TO 11 WAS
of wooden peg; copper nail	924.16	Bull. 569
Chariton, T. 72 N., R. 22 W., at NE. cor. sec. 27, at SW. cor. crossroads, 2 feet NE. of corner post; iron post		
stamped "Towa, 1046, 1913"	1,046.474	Bull. 569
Chariton, T. 72 N., R. 22 W., at NW. cor. sec. 25, in SE.	,0	241, 000
angle of T road south, 1 foot east of corner post, in top		
of osage peg; copper nail	1,027.54	Bull. 569
Chariton, Crystal Lake; water elevation	975.16	Bull. 569
Chariton, T. 72 N., Rs. 21 and 22 W., between secs. 19 and 24, respectively, on north side of road, at corporation		
limits, west side, 6 inches south of east-west fence, in		
top of wooden peg; copper nail	958.60	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Chariton, in SW. cor. courthouse yard; iron post stamped		
"'Iowa, 1041, 1913''	1,040.984	Bull. 569
Chariton, 1.2 miles north of, in Sw. cor. I road west, about		
0.2 mile east of greenhouse, on west side of 16-inch maple tree, in root of tree; iron wire nail with copper		
		Bull. 569
Washer Chariton, 2 miles north of, T. 72 N., R. 21 W., NW. of	1,037.32	ьші. 509
center of sec. 17, at SE. angle of T road east, south end		
of plank drain, in top of: copper nail	1,005.42	Bull. 569
of plank drain, in top of; copper nail	2,000.12	Dun. ou
3.5 feet north of corner post; iron post stamped "Iowa,		
991. 1913''	991.101	Bull. 569
Charles City	1017.40	CCM
Charles City	1012	IC
Charles City, crossing CM&StP	1011	$\mathbf{IC}$
Charles City	1011,G1013	CM&StP
Charles City, crossing IC	1007,G1023	CM&StP
Charles City	G1005	Weather Bur.
Charleston	700,6701	CB&Q
Charlotte	1000,0001	C&NW
Chatsworth	1160 G1164	CM&StP CM&StP
Chatsworth, 1 kilometer north of, 20 meters east of rail-	1100,01104	OHECOU
way, 13 meters north of road, 2 meters east and 1 meter		
north of SW. cor. pasture, 1.7 meters below rails; copper		
bolt in top of stone post lettered "U.S.B.M." (U.S.C.		
&G.S.b.m.M)		Bull. 569
Chatsworth, 25 meters north of station, 29 meters east of	•	
railway, 12 meters south of road, on jasper rock 1 meter		
south and 0.5 meter west of NW. cor. meadow; bottom		
of square hole (U.S.C.&G.S.b.m.N)	1,159.833	Bull. 569
Chatsworth, on east pier of north pair, under railway water		
tank, 36 meters south of station, 5.5 meters west of track,		
in top bevel, 0.19 meter above ground, at east edge and		
0.24 meter south of north edge; bottom of square hole	1 161 759	Dull 560
(U.S.C.&G.S.b.m.O)	1,161.753	. Bull. 569
railway bridge, 3 meters north of road, 13 meters west of		
railway, 1 meter east of fence, 0.5 meter below rails;		
copper bolt in top of stone post lettered "U.S.B.M."		
(Ü.S.C.&G.S.b.m.P) Chatsworth, 2 miles NE. of	1,154.348	Bull. 569
Chatsworth, 2 miles NE. of	1252	IaGS
Chautaugua	1009	CRI&P
Chautauqua, west end switch	1009,G1011	CM&StP
Chelsea	788,G789	C&NW
Cherokee	1199,01201	IC
Chester		$rac{ ext{CM\&StP}}{ ext{WRR}}$
Chesterfield		CB&Q
Chillicothe, southeast corner of SE. wing of west abutment	002,000	ODaca
of highway bridge over Des Moines river, (U.S.C.E.		
b.m, 49)	659.73	Bull. 569
b.m. 49)		
end of highway bridge over Des Moines river (U.S.C.E.		
b.m. 78)	659.73	Bull. 569
Chisholm	859.9	CB&Q
Churchville	53.1,G949	CGW
Churdan		CM&StP
Cisco		CB&Q
Cisco	818	CRI&P IC
O.W.A	224,G221	10

# CLARA-CLAYTON

	ELEVATION	
STATION	FEET	AUTHORITY
Clara, at intersection of north-south and east-west roads, in NW. cor. C. E. Osborn's yard near NW. cor. SW. ¼ NW. ¼ sec. 34, T. 76 N., R. 44 W.; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 123/2): Copper bolt	984.00	Bull. 569
Clare1	988.08 216,G1194	M&StL
Clare, T. 90 N., R. 29 W., quarter corner, N. side of sec. 34, 40 ft. SW. of crossroads, 2 ft. N. of fence corner;	1 141 007	TIBOR
iron post stamped ''IOWA 1919 1,141''	1,141.307	USGS
W., 50 ft. NE. of road fork, inside church inclosure, in root of 18-inch elm tree, marked "1,177.7"; copper nail	1,177.55	USGS
and washer	1,177.00	0.000
corner fence post, marked "1,152.6"; spike	1,152.49	USGS
15, 30 ft. NW. of crossroads, in base of corner fence		*****
post, marked ''1,146''; spikeClarence	1,145.87	USGS C&NW
Clarinda1	.012.G1009	CB&Q
Clarinda, crossing Villisca and Shenandoah lines	1006.36	CB&Q
Clarinda	G1009	Weather Bur.
Clarion	66.8,G1170	$_{\mathrm{CGW}}$
Clarion, crossing CRI&P	1174 G1168	CRI&P
Clarion, crossing CGW	1170	CRI&P
Clark10	00.7,G999	CB&Q
Clark		IaGS
Clarkson		$^{\mathrm{CB}\&\mathrm{Q}}$
Clarksville		CRI&P
Clarksville9 Clarksville, crossing CRI&P	6932	CGW
Clay	759.G751	M&StL
Clayton	624,G624	CM&StP
Clayton, 400 meters above foot of Island 181, 20 meters	•	
back from bank of river, just above head of Island 182; copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 193/2): Copper bolt	609.87	Bull. 569
Cap on pipe	613.82	2411. 000
Clayton, opposite CM&StP Ry station; base of rail (U.S. C.E.b.m.)	623.46	Bull. 569
Clayton, Island 181, 20 meters back from river bank, 600		
meters above small slough which empties into river op-		
posite Clayton, 100 meters below upper end of high timber (bank in front of bench mark is steep, but be-		
comes sloping 100 meters below): copper bolt in tile		
comes sloping 100 meters below); copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 194/2); Copper bolt	613.24	Bull. 569
Cap on pipe	617.19	
Clayton, 0.25 mile above station, on right of way of CM& StP Ry, 1.5 meters from fence, on slope of bluff, 5 meters above railroad bridge 352; 10 meters above a Government light; copper bolt in tile surmounted by iron pipe		
above railroad bridge 352; 10 meters above a Govern-		
(U.S.C.E.b.m. 194/3):		
Copper bolt	644.26	Bull. 569
Cap on pipe	648.20	~411, 000
Clayton, nearly 3 miles below, 4 feet farther down the river than p.b.m. 242, 2 feet above grade of track,		

	ELEVATION	
STATION STATION	FEET	AUTHORITY
marked "US" on face of ledge; highest point in square (U.S.C.E.t.b.m. 241)	628.306	Bull. 569
Clayton, nearly 3 miles below, opposite lower part of Island		
182, 141 feet below milepost 76, on line of CM&StP Ry, 45 feet above highest point of heavy rock-cut waste,		
about in center of long sidehill rock cut, at prominent		
point of bluff in steeply inclined face of rock, 4½ feet		
above grade, marked <sup>?</sup> U.S.⊙P.B.M.''; copper bolt (U. S.C.E.p.b.m. 242)	630.674	Bull, 569
Clayton, 1 mile below, 866 feet below milepost 74, 230 feet		
above wooden sand hopper, on more northerly one of two large bowlders, 19 feet west of center of track; highest		
point in square cut on top face, 1 foot from edge, marked		
"'U S" (U.S.C.E.t.b.m. 239)	632.053	Bull. 569
river bank, on southwest corner of Main and Douglas		
Sts., on brick building occupied by Frank Lier & Co., on		
east end of doorstep, marked "Ü.S. OP.B.M."; copper bolt (U.S.C.E.p.b.m. 241)	650.304	Bull. 569
Clayton, at CM&StP Ry station, on top stone of founda-		
tion pier, at northeast corner of platform, behind center of circle "O" (U.S.C.E.t.b.m. "Old U.S.b.m."; also		
called ''Old p.b.m. 27'')	626.137	Bull. 569
Clayton, in upper end of, on large stone mill at west side of CM&StP Ry track, on river front of building at low-		
er window and lower end of window sill; top of ring bolt,	•	
1 inch above surface (U.S.C.E. old U.S.b.m.b.)	622.541	Bull. 569 Miss. Riv. Com.
Clayton, Mississippi river, low water		
Clayton Center, Clayton Co., sec. 9, T. 93 N., R. 4 W.		D-11 500
SE. cor. school yard; iron post stamped "1038 DBQ"	1,038.838 1236.G1240	Bull. 569 CM&StP
Clear Lake Junction	1164.7	CGW
Clear Lake Junction, crossing CM&StP		CGW CRI&P
Clearfield	1253,G1250	CB&Q
Cleghorn	1459,G1458	IC M&StL
Clemons Grove	900,0900	MOOLL
Clermont, in front of CRI&P Ry station; top of rail (on spur line)	854.6	Bull. 569
Clermont, in sec. 34, T. 95 N., R. 7 W., in NE. cor. school yard; iron post stamped "861 DBQ"; as reset in 1924	861.836	Bull. 569
Clermont	859	CRI&P
Cleveland		CB&Q CRI&P
Cliffland, B.M. top of monument M.P. 69	628.44	CRI&P
Cliffland, B.M. top of monument M.P. 70	632.92 631.19	CRI&P CRI&P
Cliffland, B.M. top of monument M.P. 71 (U.S.C.E.b.m. 40) Cliffland, top of rail, center section house (U.S.C.E.b.m. 45)	630.50	CRI&P
Cliffland, B.M. top of monument M.P. 72	641.05	CRI&P
Cliffland, B.M. top of monument M.P. 73	. 638.71	CRI&P
Cliffland, top of SE. cor. downstream end of first concrete pier from north end of highway bridge (U.S.C.E.b.m. 86)	636.00	Bull. 569
Clinton		C&NW C&NW
Clinton	. 593	CM&StP
Clinton, crossing C&NW		CM&StP CM&StP
Clinton, DRI&NW station	601	CB&Q
Clinton, junction with City Railway lines		CD&M
Clinton	. 591	CRI&P

# CLINTON-COALFIELD

<b>6</b>	ELEVATION	A Emilonania
STATION Clinton, in extreme southern part of, opposite stock yards,	FEET	AUTHORITY
1 meter east of fence on west side of street forming west		
line of Chancy Park addition, 131 meters north of north		
line of Liberty St.; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 160/4): Copper bolt	633.80	Bull. 569
Can on nine	637.83	
Clinton, in front of CB&Q RR passenger station, base of		T 11 HAD
rail (U.S.C.E.)	590.19	Bull. 569
rail (U.S.C.E.)	590.83	Bull. 569
Clinton, cut on third capstone of west abutment of C&NW	000110	
Ry bridge (U.S.C.E. railroad b.m.)	592.42	Bull. 569
Clinton, at waterworks, cut on top of square stone 1 foot above ground on building line on north side of Sixth		
Ave. at waterworks (U.S.C.E.t.b.m. 20 r.b. equals city		
b.m.)	587.25	Bull. 569
Clinton, on NW. cor. Oliver Messer's warehouse; high-	507.10	D11 #60
water mark of 1880	587.10	Bull. 569
river bank; high-water mark of 1892	584.30	Bull. 569
Clinton, at east end of C &NW Ry bridge; base of rail		
over east abutment (U.S.C.E.b.m.)	593.08	Bull. 569
Clinton, at Chandler St., 648.6 meters back of following- described bench mark, on wagon road running parallel		
to CB&Q RR tracks, 0.5 meter west of fence on east		
side of road, 225 meters south of north line of property		
of C&NW Ry, 14.5 meters 209° 30' to SW. cor. white		
house owned by C&NW Ry; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 161/1):		
Copper bolt	591.59	Bull. 569
Cap on pipe	595.60	
Clinton, at Chandler St., 1.5 miles below Lyons wagon		
bridge across river, on prominent point, 25 meters from shore; copper bolt in top of tile surmounted by iron		
pipe (U.S.C.E.b.m. 161/2):		
Copper bolt	584.77	Bull. 569
Cap on pipe	588.72	
ler and North First St., one block south of Joyce's saw-		
mill; copper bolt in tile surmounted by iron pipe (U.S.C.		
E.b.m. 161/3):	<b>200 04</b>	D II 500
Copper bolt	593.34 597.35	Bull. 569
Clinton, C&NW	G589	USGS
Clinton, Mississippi river, low water	G566	Miss. Riv. Com.
Clinton, Mississippi river, high water	. G586	Miss. Riv. Com.
Clinton		Weather Bur. CRI&P
Clive	. 846,G848	CM&StP
Clive, Motts schoolhouse, 1.1 miles north of, 20 feet north		
of center of forks of roads, 400 feet west of road north	2	
400 feet west of SE. corner of sec. 26, T. 79 N., R. 25 W.; iron post stamped "869 Adj 1903"	868.097	Bul. 569
Cloverdale	.1522,G1518	CRI&P
Clucas	. 955	CRI&P
Clutier	. 856	C&NW
sec. 19, in NW. angle of roads at T road north of fence	; <b>)</b>	
corner on fence line to north, driven in ground: 0.75		
inch gas pipe, painted "U.S.B.M. 871.7"	871.49	USGS

Station	ELEVATION FEET	AUTHORITY
Coalfield, T. 73 N., R. 16 W., NW. cor. NE. 1/4 NE. 1/4 sec. 18, 10 feet east of right-of-way fence, on fence line east,		AUTHOMIT
at angle in road, in root on east side of a 3-foot willow tree; copper nail and washer, painted "U.S.B.M. 855.2" Coalfield, T. 73 N., R. 16 W., near quarter corner between secs. 7 and 8, in NE. angle of roads at T road north, 10 feet east by 1 foot south of corner of right-of-way	854.91	USGS
fence, in top of concrete post; bronze tablet stamped "E.B. No. 12 1924 Iowa", painted "U.S.B.M. 826.3" Coalfield, reference mark, 15 feet west by 3 feet north of tablet, in root on west side of a 3-foot black oak tree;		USGS
copper nail and washer		USGS
painted "U.S.B.M. 738.0"	737.78	USGS
812.9''	812.57	USGS
Coalfield		M&StL
Coatesville	992	WRR
Coburg	1008.6	$^{\mathrm{CB}\&\mathrm{Q}}$
Coggon	916	IC
Coggon, crossing CA&N	908	IC
Coin	995	WRR
Coin, crossing CB&Q	1015	WRR
Coin		CB&Q CB&Q
Coin, crossing Wabash	1039 <b>711</b>	CB&Q
Colfax, T. 79 N., R. 21 W., at corner of secs. 13, 14, 23	111	CDack
and 24, in NW. cor. crossroads, top of north end of iron		
culvert; chiseled square, marked "867.5"	867.58	USGS
Colfax, T. 79 N., R. 21 W., near corner of secs. 11, 12, 14	001.00	0.000
and 13, 175 feet east and 15 feet north of crossroads, top		
of second concrete step leading to farmhouse yard;		
chiseled square, marked ''881.3''	881.39	USGS
Colfax, 0.25 mile south of, 30 feet north of elbow in road,		
at quarter corner between secs. 11 and 12, on concrete		
post; bronze tablet stamped "Prim. Trav. Sta. No. 20-		
L.S1924-Ia.'', marked ''915.1''	915.220	USGS
Colfax, reference mark is 5 feet east of "L.S. 20"; top		
of gas pipe	915.11	USGS
Colfax, on south Locust St. between West Broadway and		,
West Washington Sts., on west side of public grade		
school building, on south side north door, in top of foot		
stone; chiseled square, marked "813.0"	813.096	USGS
Colfax, CRI&P Ry in, at crossing of Walnut St.; top of	707 F4	TTOGG
south rail	791.54	USGS
Colfax, on north side of, top of NE. end of railing of con-		
crete bridge on Highway No. 64 over Skunk river drainage ditch; chiseled square, marked "794.6"	704.71	TTOCO
Colfax, Skunk river drainage ditch near, surface of water	794.71	USGS
underneath bridge on May 22 1026 230 nm	775,78	USGS
underneath bridge on May 22, 1926, 2.30 p.m	110.10	abao
near road junctions, 85 feet west of line of highway		
south and 45 feet south of line of highway west and		
road east, in root on south side of 30-inch maple tree:		•
copper nail and washer, marked "808.0"	808.06	USGS
Colfax, T. 80 N., R. 21 W., in NE.14 NW. 14 sec. 35, 160		

# COLFAX\_CORALVILLE

	ELEVATION	
STATION.	FEET	AUTHÒRITY
feet north and 25 feet west of T-road west, top of west heading of concrete culvert; chiseled square, marked "857.6"	857.73	USGS
Colfax, T. 80 N., R. 21 W., near quarter corner between secs. 23 and 26, 30 feet south and 30 feet east of cross-		
secs. 23 and 26, 30 feet south and 30 feet east of cross-		
roads, top of concrete post (witness mark of corner);		TTOOO
iron rod, marked ''927.3''	927.38	USGS DM&CI
Colfax	786.71	CRI&P
Collett	752	CB&Q
Collett	1007.G1005	CM&StP
Collins, Altamont moraine east of	1022	IaGS
Colo	1043,G1043	C&NW
Colo Altamont moraine east of	1016	IaGS
Columbia Siding	816	C&NW
Columbus Junction	586,G595	CRI&P
Columbus Junction, crossing CRI&P, Burlington line	586	CRI&P
Commerce	833,6836	CRI&P
Commerce, 2.5 miles west of, in NW. cor. concrete culvert; aluminum tablet	834.843	Bull. 569
Commerce, 50 feet south of track, 75 feet SW. of first stone	004.040	وەق، ئېيىند
culvert west of station, 2 feet west of gate, in right of		•
way fence, near section tool house; iron post	836.074	Bull. 569
Commerce, in front of CRI&P By station; top of rail	836.5	Bull. 569
Cone	615.G618	CRI&P
Cone, crossing CM&StP	614	CRI&P
Cone	612.G615	CM&StP
Cone, crossing CRI&P	613,6615	$\begin{array}{c} { m CM\&StP} \\ { m DM\&CI} \end{array}$
Conger	$921.41 \\ 528.3$	CRI&P
Connables—Subgrade of track opposite shelter	020.0	Olular
(IISCEhm. 2)	. 512.56	CRI&P
Connables, 0.8 mile SE. of, top of monument M.P. 11 (U.S.C.E.b.m. 3)		•
(U.S.C.É.b.m. 3)	515.24	CRI&P
Connables, top of monument M.P. 12	533.79 ´	CRI&P
Connables, top of monument M.P. 13	542.27	CRI&P
Connor, Allamakee Co., T. 98 N., E. 6 W., SE. cor. sec. 9,		
in SW. cor. West Ridge school yard; iron post stamped	1,253.487	Bull. 569
Conover, in front of CM&StP Ry station; top of rail		Bull. 569
Conover, sec. 15, T. 97 N., R. 9 W., north of front entrance		
to village hall; iron post stamped "1233 DBQ"	1,233.449	Bull. 569
Conover	1235.6	USGS
Conover	. 1236	CM&StP
Conover, junction with Decorah branch	. 1239	CM&StP
Conrad	992	C&NW
Conroy Consol	. 793.99	CM&StP C&NW
Conway1	. 190.99 141 5 G1140	CB&Q
Conway Crossing (changed to Merle Junction) Crestor	1	ODuq
oranch	194.0,01199	CB&Q
Conway Crossing, crossing CB&Q	G1156	CB&Q
Coon Rapids	.1170,G1174	CM&StP
Coon Valley	779	CRI&P
Cooper	.1079,G1081	CM&StP
Coppock	. 623 G620	$^{ m CB\&Q}_{ m M\&StL}$
Coppoek	1258	IC
Coralville, top of rail on south line sec. 31, Tp. 80, R. 6,	. 1200	20
240 feet west of SE. cor. sec. 31	730.40	CR&IC

	ELEVATION	
Station	FEET	AUTHORITY
Coralville, top of rail at center line of CRI&P and CR&IC	•	
crossingCoralville, bench mark, top of water table on SW. cor. sub-	663.30	CR&IC
Coralville, top of rail on south line sec. 5, Tp. 79, R. 6,	664.78	CR&IC
1025 feet east of S. ¼ cor. sec. 5	662.80	CR&IC
Cordova, T. 77 N., R. 20 W., 0.5 mile east of SW. cor. sec.	738	WRR
12, 30 feet south and 85 feet west of center of cross-		
roads, 4 feet north of fence; iron post stamped "837		
Iowa''	835.423	Bull. 569
Cornelia	1176,61180	CRI&P CGW
Cornell	1396	M&StL
Corning		CB&Q
Corning, E. line sec. 4, Mercer Tp.	1280	IaGŠ
Corning	G1117	Weather Bur.
Correctionville	1128	C&NW
Correctionville, crossing IC	1126	C&NW
Correctionville	1127,G1129	IC
Correctionville, crossing C&NW	1130, <del>G</del> 1129	IC
Corwith	1174,G1177	M&StL
Corwith, crossing M&StL	1178,G1178	M&StL
Corydon, crossing under CB&Q	1083	CRI&P
Corydon, crossing under CB&Q	1078	CRI&P
Corydon	1089,G1105	CB&Q
Cotter	694	CRI&P
Cottonville, Jackson Co	990	USGS
Cottonville, Middle Richland Tp	840	USGS
Cottonwood	708	$^{\mathrm{CB}\&\mathbf{Q}}$
Cou Falls, top of rail on south line sec. 16, Tp. 81, R. 7,	742.60	OD 6.TO
550 feet east of SW. cor. sec. 16	<b>743.6</b> 0	CR&IC
pier on north side of elevator	743.15	CR&IC
Cou Falls, top of rail on east line sec. 21, Tp. 81, R. 7, 1350		
feet north of SE. cor. sec. 21	700.50	CR&IC
Cou Falls, top of rail on north end of Iowa river bridge Cou Falls, top of rail on south end of Iowa river bridge	700.70 700.60	CR&IC CR&IC
Coulter	1239.4	CGW
Council Bluffs	1239.4 1239.4	CGW
Council Bluffs, crossing C&NW98	20 30 G984	CGW
Council Bluffs, crossing CB&Q	983 0 G988	ČĞW
Council Bluffs	989.G984	IC
Council Bluffs, Levee Jct.	991	ĨĊ
Council Bluffs, North Jet		IC
Council Bluffs		C&NW
Council Bluffs, east switch	981	$\overline{\mathrm{WRR}}$
Council Bluffs, west end Wabash yards	983	WRR
Council Bluffs	977,G983	CRI&P
Council Bluffs, crossing CGW	989	CRI&P
Council Bluffs, crossing Wabash and CB&Q	976	CRI&P
Council Bluffs, crossing CM&StP	977	CRI&P
Council Bluffs, crossing C&NW	977	CRI&P
Council Bluffs, U.P. transfer	978	CRI&P
Council Bluffs, in front of CRI&P station; top of rail	981.9	Bull. 569
Council Bluffs, in south wall of post office, near SW. cor.;	- 000	
aluminum tablet	1,000.654	Bull. 569
Council Bluffs, 2.5 miles east of, in west pier of CGW Ry		
bridge crossing CRI&P Ry and CM&StP Ry tracks, 5	004 500	D-11 =00
feet from ground; aluminum tablet	994.520	Bull. 569
Council Dians, o miles east of, nameay between Chick	•	

Ry and CM&StP Ry tracks, 6 feet north of wagon road at crossing SE. of John Slightam's house; iron post.    Section	STATION	ELEVATION FEET	AUTHORITY
Council Bluffs, crossing Wabash & CRI&P.  Gouncil Bluffs, Crystage Council Bluffs, CP, transfer station.  Council Bluffs, U.P. transfer station.  Council Bluffs, Crossing CB&Q and Wabash.  Council Bluffs, 4 miles SE. of CB&Q station, 615 feet south of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 342):  Copper bolt  Cap on pipe  Council Bluffs, in stone doorsill of CM&StP roundhouse, 0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343)  Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 343)  Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2):  Copper bolt  Cap on pipe  Council Bluffs, 4 miles above, 62 feet south of south end of bridge 1066, 404 feet north of milepost 4, 28 feet east of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt  Cap on pipe  Council Bluffs, 6 miles north of Union Station, 630 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north	Ry and CM&StP Ry tracks, 6 feet north of wagon road at		
Council Bluffs, crossing Wabash & CRL&P.  Council Bluffs (CM&StP Council Bluffs, transfer station.  Council Bluffs, in stone doorsill of CM&StP roundhouse,  0.3 foot from east side of door frame and same from front face of sill. 8 feet from Sw. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343).  Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill. 8 feet from Sw. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 347).  Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2):  Copper bolt  Cap on pipe  Council Bluffs, 197 feet above upper end of ways of United States boat yard, 112 feet from river bank, 3 feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt  Cap on pipe  Council Bluffs, 4 miles above, 62 feet south of south end of bridge 1043, 16 feet west of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Council Bluffs, Missouri river	Council Bluffs		
Council Bluffs, U.P. transfer station 981,0984 CM&StP Council Bluffs, crossing CB&Q and Wabash of railway bridge over Mosquito creek, 49 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 342): Copper bolt 20moil Bluffs, in stone doorsill of CM&StP roundhouse, 0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343) 981.002  Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 343) 985.50  Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2): Copper bolt 990.339  Cap on pipe	Council Bluffs, crossing Wabash & CRI&P	988	
Council Bluffs, 4 miles SE, of CR&Q station, 615 feet south of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of railway bridge over Mosquito creek, 49 feet east of call way for the property of copper bolt in stone doorsill of CM&StP roundhouse, 0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343).  Council Bluffs in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 121/2):  Copper bolt Cap on pipe Council Bluffs, 4 miles above, 62 feet south of south end of bridge 1066, 404 feet north of milepost 4, 28 feet east of C&NW By track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt Cap on pipe Covernment dike, 367 feet north of shore end of upper Government dike, 367 feet north of south end of bridge 1043, 16 feet west of C&NW By track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt Cap on pipe Covernment dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore en	Council Bluffs II P transfer station	976,G979 981-G984	
Council Bluffs, 4 miles SE. of CB&Q station, 615 feet south of railway pridge over Mosquito creek, 49 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 342):  Copper bolt	Council Bluffs, crossing CB&Q and Wabash		
railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 342):  Copper bolt Cap on pipe  Council Bluffs, in stone doorsill of CM&StP roundhouse, 0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343).  Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 347).  Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 348 equals 121/2):  Copper bolt Cap on pipe  Council Bluffs, 197 feet above upper end of ways of United States boat yard, 112 feet from river bank, 3 feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 349 equals 122/2):  Copper bolt  Cap on pipe  Council Bluffs, 4 miles above, 62 feet south of south end of bridge 1066, 404 feet north of milepost 4, 28 feet east of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt  Cap on pipe  Council Bluffs, 6 miles north of Union Station, 630 feet north of south end of bridge 1043, 16 feet west of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Council Bluffs, Missouri river, low water  Council Bluffs, Missouri river, high water  Govington, south crossing under CRI&P  776  CRI&P Covington, south crossing under CRI&P  776  CRI&P Covington, south crossing under CRI&P  770  USGB CREAP  770  CM&StP Covington, south crossing under CRI&P  771  772  773  774  775  776  776  776  776  777  776  777  777  777  777  778  779  779	Council Bluffs, 4 miles SE. of CB&Q station, 615 feet south		
by iron pipe (U.S.C.E.p.b.m. 342): Copper bolt	of railway bridge over Mosquito creek, 49 feet east of		
Cap on pipe	by iron pipe (U.S.C.E.p.b.m. 342):		
Council Bluffs, in stone doorsill of CM&StP roundhouse, 0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343)	Copper bolt		Bull. 569
0.3 foot from east side of door frame and same from front face of sill, 8 feet from SW. cor. building; top of copper bolt in stone (U.S.C.E.p.b.m. 343)	Council Bluffs, in stone doorsill of CM&StP roundhouse.	914.413	
Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 347).  Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2):  Copper bolt  Cap on pipe  Council Bluffs, 197 feet above upper end of ways of United States boat yard, 112 feet from river bank, 3 feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt  Cap on pipe  Council Bluffs, 4 miles above, 62 feet south of south end of bridge 1066, 404 feet north of milepost 4, 28 feet east of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt  Cap on pipe  Council Bluffs, 6 miles north of Union Station, 630 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore end of upper Government dike, 367 feet north of shore bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Govern bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Govern bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Govern bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Govern bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, Missouri river, low water  Govern bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt  Cap on pipe  Council Bluffs, M	0.3 foot from east side of door frame and same from		
Council Bluffs Union Station, in window sill of second window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 347)		001 000	D.,11 560
window west of NE. cor. station, 0.4 foot from east jamb and 0.3 foot from face of sill; copper bolt in stone (U.S.C.E.p.b.m. 347)	Council Bluffs Union Station, in window sill of second	961.002	ъш. 909
Stone (U.S.C.E.p.b.m. 347)	window west of NE. cor. station, 0.4 foot from east		
Council Bluffs, in SW. cor. courthouse yard, 3 feet from west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2):  Copper bolt	jamb and 0.3 foot from face of sill; copper bolt in	006 570	D.,11 560
west fence and 3 feet from south fence; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 348 equals 121/2):  Copper bolt	Council Bluffs, in SW, cor, courthouse yard, 3 feet from	300.370	ъш. 505
P.b.m. 348 equals 121/2):   Copper bolt	west fence and 3 feet from south fence; copper bolt in		
Copper bolt	bench-mark stone surmounted by iron pipe (U.S.C.E.		
Council Bluffs, 197 feet above upper end of ways of United States boat yard, 112 feet from river bank, 3 feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt	Copper bolt	990.339	Bull. 569
United States boat yard, 112 feet from river bank, 3 feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt	Cap on pipe	994.355	
feet from NW. cor. boat-yard storehouse; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt	Council Bluffs, 197 feet above upper end of ways of		
bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 349 equals 122/2):  Copper bolt	feet from NW. cor. boat-yard storehouse; copper bolt in		
Copper bolt	bench-mark stone surmounted by iron pipe (U.S.C.E.		
Cap on pipe	p.b.m. 349 equals 122/2):	975 369	Bull 560
bridge 1066, 404 feet north of milepost 4, 28 feet east of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt	Cap on pipe		Бш. 505
of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 350):  Copper bolt	Council Bluffs, 4 miles above, 62 feet south of south end of		
Surmounted by iron pipe (U.S.C.E.p.b.m. 350):   Copper bolt	of C&NW By track: copper holt in heach-mark stone		
Copper bolt	surmounted by iron pipe (U.S.C.E.p.b.m. 350):		
Council Bluffs, 6 miles north of Union Station, 630 feet north of shore end of upper Government dike, 367 feet north of south end of bridge 1043, 16 feet west of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)         986.740         Bull. 569           Cap on pipe         990.756           Council Bluffs, Missouri river, low water         G962         Mo. River Com.           Council Bluffs, Missouri river, high water         G981         Mo. River Com.           Council Bluffs         G990         Weather Bur.           County Line         776         CRI&P           Covington         762,G762         CM&StP           Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co         700         USGS           Craig, Plymouth Co         1406.49         C&NW           Craig, divide 1 mile west of, track         1441         C&NW           Craig, Polk Co         962.63         DM&CI           Craston         660.G663         CM&StP	Copper bolt		Bull. 569
north of shore end of upper Government dike, 367 feet north of south end of bridge 1043, 16 feet west of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt 990.756  Cap on pipe 990.756  Council Bluffs, Missouri river, low water G962 Mo. River Com. Council Bluffs, Missouri river, high water G981 Mo. River Com. Council Bluffs G980 Weather Bur. County Line 776 CRI&P Covington 762,G762 CM&StP Covington, south crossing under CRI&P 791 CM&StP Covington, north crossing under CRI&P 812 CM&StP Crabb Hill, Jackson Co. 700 USGS Craig, Plymouth Co. 1406.49 C&NW Craig, divide 1 mile west of, surface 1441 C&NW Craig, 1 mile west of, track 1433 C&NW Craig, Polk Co. 962.63 DM&CI Cranston 660.G663 CM&StP	Council Bluffs 6 miles north of Union Station 630 feet	999.621	
north of south end of bridge 1043, 16 feet west of C&NW Ry track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt 990.756  Cap on pipe 990.756  Council Bluffs, Missouri river, low water G962 Mo. River Com. Council Bluffs, Missouri river, high water G981 Mo. River Com. Council Bluffs G981 Mo. River Com. Council Bluffs Mo. River Com. Council Bluffs Mo. River Com. Council Bluffs G981 Mo. River Com. COUNCIL BLUFF G981 Mo. River Com. CRIL&P Covington, council Bluffs G981 Mo. River Com. CRIL&P Covington, council Bluffs G981 Mo. River Com. CRIL&P COVINGTON G981 Mo. River Com. CRIL&P COMESTE COMES	north of shore end of upper Government dike, 367 feet		
by iron pipe (U.S.C.E.p.b.m. 351)  Copper bolt 986.740 Bull. 569 Cap on pipe 990.756  Council Bluffs, Missouri river, low water G962 Mo. River Com. Council Bluffs, Missouri river, high water G981 Mo. River Com. Council Bluffs G990 Weather Bur. County Line 776 CRI&P Covington 762,G762 CM&StP Covington, south crossing under CRI&P 791 CM&StP Covington, north crossing under CRI&P 812 CM&StP Covington Tool USGS Craig, Plymouth Co. 1406.49 C&NW Craig, divide 1 mile west of, surface 1441 C&NW Craig, 1 mile west of, track 962.63 DM&CI Cranston 660.G663 CM&StP Cranston 660.G663 CM&StP	north of south end of bridge 1043, 16 feet west of C&NW		
Copper bolt         986.740         Bull. 569           Cap on pipe         990.756           Council Bluffs, Missouri river, low water         G962         Mo. River Com.           Council Bluffs, Missouri river, high water         G981         Mo. River Com.           Council Bluffs         G990         Weather Bur.           County Line         776         CRI&P           Covington         762,G762         CM&StP           Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co         700         USGS           Craig, Plymouth Co         1406.49         C&NW           Craig, divide 1 mile west of, surface         1441         C&NW           Craig, 1 mile west of, track         1433         C&NW           Craig, Polk Co         962.63         DM&CI           Craston         660.G663         CM&StP			
Council Bluffs, Missouri river, low water         G962         Mo. River Com.           Council Bluffs, Missouri river, high water         G981         Mo. River Com.           Council Bluffs         G990         Weather Bur.           County Line         776         CRL&P.           Covington         762,G762         CM&StP.           Covington, south crossing under CRL&P.         791         CM&StP.           Crab Hill, Jackson Co.         700         USGS.           Craig, Plymouth Co.         1406.49         C&NW.           Craig, divide 1 mile west of, surface.         1441         C&NW.           Craig, Polk Co.         962.63         DM&CI.           Craig, Polk Co.         660.G663         CM&StP.	Copper bolt	986.740	Bull. 569
Council Bluffs, Missouri river, high water.         G981         Mo. River Com.           Council Bluffs         G990         Weather Bur.           County Line         76         CRI&P           Covington         762,G762         CM&StP           Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co.         709         USGS           Craig, Plymouth Co.         1406.49         C&NW           Craig, divide 1 mile west of, surface         1441         C&NW           Craig, 1 mile west of, track         1433         C&NW           Craig, Polk Co.         962.63         DM&CI           Cranston         660.G663         CM&StP	Cap on pipe	990.756	16 D. O
Council Bluffs         G990         Weather Bur.           County Line         776         CRI&P           Covington         762,G762         CM&StP           Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co.         700         USGS           Craig, Plymouth Co.         1406.49         C&NW           Craig, divide 1 mile west of, surface         1441         C&NW           Craig, 1 mile west of, track         1433         C&NW           Craig, Polk Co.         962.63         DM&CI           Cranston         660.G663         CM&StP	Council Bluffs, Missouri river, low water  Council Bluffs, Missouri river high water	G962 G981	
Covington         762,G762         CM&StP           Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co         700         USGS           Craig, Plymouth Co         1406.49         C&NW           Craig, divide 1 mile west of, surface         1441         C&NW           Craig, 1 mile west of, track         1433         C&NW           Craig, Polk Co         962.63         DM&CI           Cranston         660.G663         CM&StP	Council Bluffs	G990	
Covington, south crossing under CRI&P         791         CM&StP           Covington, north crossing under CRI&P         812         CM&StP           Crabb Hill, Jackson Co         700         USGS           Craig, Plymouth Co         1406.49         C&NW           Craig, divide 1 mile west of, surface         1441         C&NW           Craig, 1 mile west of, track         1433         C&NW           Craig, Polk Co         962.63         DM&CI           Cranston         660.G663         CM&StP			
Covington, north crossing under CRI&P.         812         CM&StP           Crabb Hill, Jackson Co.         709         USGS           Craig, Plymouth Co.         1406.49         C&NW           Craig, divide 1 mile west of, surface.         1441         C&NW           Craig, 1 mile west of, track.         1433         C&NW           Craig, Polk Co.         962.63         DM&CI           Cranston         660.6663         CM&StP			
Craig, Plymouth Co.         1406.49         C&NW           Craig, divide 1 mile west of, surface.         1441         C&NW           Craig, 1 mile west of, track.         1433         C&NW           Craig, Polk Co.         962.63         DM&CI           Cranston         660.6663         CM&StP	Covington, north crossing under CRI&P		
Craig, divide 1 mile west of, surface.         1441         C&NW           Craig, 1 mile west of, track.         1433         C&NW           Craig, Polk Co.         962.63         DM&CI           Cranston         660.6663         CM&StP	Crabb Hill, Jackson Co		
Craig, 1 mile west of, track.       1433       C&NW         Craig, Polk Co.       962.63       DM&CI         Cranston       660.G663       CM&StP	Craig, divide 1 mile west of, surface.		
Cranston	Craig, 1 mile west of, track	1433	C&NW
Cranston, crossing Cedar river 604,G607 CM&StP	Cranston	962.63	
	Cranston, crossing Cedar river	604,G607	

	ELEVATION	
Station	FEET	AUTHORITY
Crawfordsville	731	CB&Q
Crescent	992,G995	C&NW
Crescent, 183 feet south of station, 15 feet east of rail-	•	
road, in small park belonging to railway company; cop-		
per bolt in bench-mark stone surmounted by iron pipe		
(U.S.C.E.p.b.m. 352):		
Copper bolt		Bull. 569
Cap on pipe	992.459	
Cresco		${ m CM\&StP}$
Cresco		Weather Bur.
Creston	1314,G1312	CB&Q
Crippen	1260,G1265	CM&StP
Crocker	981,G985	C&NW
Crocker, T. 81 N., R. 24 W., NW. cor. sec. 34; spike in	000 -0	
telephone pole, marked "U.S.B.M. 995"	993.58	Bull. 569
Crocker, T. 81 N., R. 24 W., SW. cor. sec. 35; iron post	055 410	T 11 740
stamped "979"	977.418	Bull. 569
Crocker, T. 80 N., R. 24 W., NE. cor. sec. 4; spike in tele-	000.00	D11 ##0
phone pole, marked "U.S.B.M. 981"	980.08	Bull. 569
Crocker, T. 81 N., R. 24 W., SW. cor. sec. 33; spike in telephone pole, marked "U.S.B.M. 975"	974.22	Bull. 569
Crocker T 80 N R 94 W NE cor see 6: iron post	914.22	ъш. 909
Crocker, T. 80 N., R. 24 W., NE. cor. sec. 6; iron post stamped "977"	975.742	Bull. 569
Cromwell	1253 G1255	CB&Q
Crooks	1162	FtDDM&S
Crooks, T. 87 N., R. 28 W., near cor. secs. 29, 30, 31 and 32,	1102	I (DDIII)
about 600 feet east of crossroads, in concrete walk at SE.	•	
corner of west porch on Mr. Grant Spangler's residence,		
bronze tablet stamped ''Iowa 1921''	1,165.353	USGS
Crooks, T. 87 N., R. 28 W., near cor. secs. 29, 30, 31 and	,	
32, about 600 feet east of crossroads, in Mr. Grant		
Spangler's yard, near front gate, in root of maple tree		
(10 inches in diameter); copper nail and washer		
(10 inches in diameter); copper nail and washer marked "U.S.G.S.B.M." S 10° E. 93.1 ft. from bronze		
tablet desc. above	1,162.24	USGS
Crooks, T. 87 N., Rs. 28 and 29 W., at cor. secs. 25, 30, 31		
and 36, about 280 feet west of junction of T road north,		
in south side of road, in foot of willow stump; copper		
nail and washer marked "U.S.G.S.B.M."	1,153.90	USGS
Crooks, T. 87 N., R. 29 W., at cor. secs. 25, 26, 35 and 36		
in schoolyard at NE. cor. crossroads, 40 feet SW. of		
schoolhouse, in root of maple tree (15 inches in di-		
ameter); copper nail and washer marked "U.S.G.S.	1 150 05	TOOO
B.M.'' Crooks, 0.5 mile west of, T. 87 N., R. 29 W., at cor. secs.	1,158.85	USGS
23, 24, 25 and 26, in SW. cor. crossroads, inside field		
force and 6 feet couth of force corners iron most		
fence and 6 feet south of fence corner; iron post stamped "Iowa 1921"	1,158.061	USGS
Crooks, 0.5 mile west of, T. 87 N., R. 29 W., cor. secs. 23,	1,100.001	avau
24, 25 and 26, in south end of concrete culvert, at SE.		
cor. crossroads; chiseled square N. 65° E. 66.1 ft. from		
iron post desc. above	1,158.06	USGS
Crooks, T. 87 N., R. 29 W., at cor. secs. 13, 14, 23 and 24	1,100.00	ODGD
Crooks, T. 87 N., R. 29 W., at cor. secs. 13. 14, 23 and 24, in schoolyard at SE. cor. crossroads, 40 feet west of		
schoolhouse, in root of soft maple tree (14 inches in		
diameter); copper nail and washer marked "U.S.G.S.		
B.M.'' T.B.M. 1,157.4	1,157.27	USGS
Croton, B.M. top of monument M.P. 24 (IISCE hm. 10)	544.32	CRI&P
Croton, B.M. top of monument M.P. 25 (U.S.C.E.b.m. 11)	548.21	CRI&P
Croton, top of rail, center of depot	543.4	CRI&P
Croton, B.M. top of monument M.P. 26 (U.S.C.E.b.m. 12)	542.72	CRI&P

	ELEVATION	
STATION	FEET	AUTHORITY
Croton, B.M. top of monument M.P. 27 (U.S.C.E.b.m. 13)	560.61	CRI&P
Croton, B.M. top of monument M.P. 28 (U.S.C.E.b.m. 14)	553.40	CRI&P
Crystal Lake	1143 1258	CB&Q CRI&P
Cuba		CM&StP
Cuba, English river near	725	IaGS
Culver	543	CRI&P
Culver, junction with CRI&P	545	CM&StP
Cumberland 122	4.64,G1223	CB&Q
Cumberland, level of Seven Mile creek, 1½ miles north of Cumberland, first hilltop south of	1105 1317	IaGS IaGS
Cummings9	72.7.G971	CGW
Cummins	917.87	DM&CI
Curlew		M&StL
Cushing	L275,G1275	C&NW
Cylinder	1188,G1194	CM&StP
Daileys ————————————————————————————————————		DM&CI DM&CI
Dakota City	1124.G1125	C&NW
Dakota City, crossing over M & StL	1135	· C&NW
Dakota City, T. 92 N., R. 28 W., near NW. cor. sec. 26,		
1,551 feet (by traverse) south of T road east, in south		
corner of right angle bend in road to north and west;	1 107 140	TTGGG
iron post stamped "Towa 1921"	1,127.149	USGS
had been removed, and in the hole where traverse post		
had been, as pointed out by nearby resident.		
Dakota City, T. 92 N., R. 28 W., near NW. cor. sec. 26,		
bearing N. 50° W., distant 67.5 feet from above post,		
1,524 feet south of T road east, at north cor. of right		
angle bend in road, in root of oak tree (12 inches in diameter); copper nail and washer marked "U.S.G.S.B.		
M.''	1,127.60	USGS
Dale		CRI&P
Dallas, Dallas Co.	944.27	DM&CI
Dallas, Marion Co., see Melcher.		3500.7
Dallas Center	1073,G1068	M&StL
in corner of lot at SW. cor. junction of crossroads, 10		
feet from either road; iron post stamped "1049"	1,047.306	Bull. 569
Dallas Center, T. 79 N., R. 27 W., sec. 2, in east face of	_,	
Citizen's Bank, 27 feet from south edge: aluminum		
tablet stamped "1073"	1,071.985	Bull. 569
Dallas Center, T. 80 N., R. 27 W., NW. cor. SW. ¼ sec. 23, in corner of field at SE. cor. crossroads, 15 feet		
from either road and 3 feet from side of fence around		
field; iron post stamped, "1024"	1,022.376	Bull. 569
Dallas Center, T. 80 N., R. 26 W., SE. cor. NE. 1/4 sec. 19,	_,	
in corner of field at NW. cor. T road, 10 feet from		
either road, 3 feet from either side of fence around	4 00 - 000	
field; iron post stamped "1029"	1,027.993 1203	Bull. 569
Dalton	1203 1193 G1118	GN M&StL
Danbury	1157	C&NW
Danville	723,G726	CB&Q
Darby (abandoned, 1908)	867,G871	CM&StP
Davenport	569,G559	CM&StP
Davenport, crossing CRI&P		CM&StP CRI&P
Davenport, crossing Telegraph Road and Indian Road	592.07	CD&M
Davenport, crossing over CRI&P	727.96	CD&M
- · <del>-</del>		

	ELEVATION	
STATION	FEET	AUTHORITY
Davenport, crossing, top of CRI&P rail  Davenport, DRI&NW station	$703.20 \\ 566$	CD&M CB&Q
Davenport, 3 miles below, 0.5 meter west of fence on Daven-		·
port wagon road along bluffs, 1,569.5 meters back from bench mark 148/3, 35.5 meters 229° to NW. cor. Fair-		
view schoolhouse; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 148/4):		
Copper bolt	. 616.22	Bull. 569
Cap on pipe	620.12	
Davenport, in top of corner of foundation of glucose works in southern part of, on SW, cor, east wing of building:		
in southern part of, on SW. cor. east wing of building; copper bolt marked "M.R.C. B.M.U.S." (U.S.C.E. b.m. 149/3):		
b.m. 149/3):	563.63	Bull. 569
Davenport, top of top bolt in fire plug at west end of retaining wall, Davenport end of Government bridge (U.S.		
C.E.t.b.m. 3 r.b.)	566.05	Bull. 569
Davenport, top of water table SW. cor. Davenport water-	000.00	Dun. 000
works (·U.S.C.E.t.b.m. r.b.)	564.94	Bull. 569
Davenport, in front of CM&StP Ry station; base of rail	560 17	D11 500
(U.S.C.E.b.m.)  Davenport, in front of passenger station of CRI&P Ry;	560.17	Bull. 569
base of rail	592.12	Bull. 569
Davenport, top of stone doorsill west end of stone of		
Masonic Temple entrance on Third St. (U.S.C.E. city	E00.00	D11 500
b.m.)	583.33	Bull. 569
senger station (U.S.C.E. city b.m.)	593.38	Bull, 569
Davenport and Rock Island bridge, on draw pier; Gov-		
ernment gage; elevation of zero	542.52	Bull. 569
meters from bank of river, 0.5 meter north of fence, in		
oak grove, 115 meters above culvert across creek, 11.5		
meters 334° 30′ to 10-inch hickory tree; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 150/3):	FOF 55	D 11 500
Copper bolt	585.77 589.82	Bull. 569
Davenport, Rock Island rapids, opposite guide pier 22; on	000.02	
top of solid ledge of rock at extreme point of rock at		
bend (U.S.C.E.b.m. 22 R.B.) (Col. King)	560.58	Bull. 569
Moline, Ill., just below iron post opposite upper end of, on solid ledge of rock (U.S.C.E.b.m. 21 R.B.)	559.82	Bull. 569
Davenport, Rock Island, 1.5 miles above head of, on prop-	003.02	Dun. 505
erty of George Walker, 60 meters east of east line of		
club grounds belonging to M. Y. Cady, 0.5 meter east of		
wire fence between properties of George Walker and Lawrence Rassmusson, 25 meters south of river, 125		
meters north of CB&O RR: conner bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 151/2):		
Copper bolt	564.04	Bull. 569
Cap on pipe	568.06	
erty of Young Stokes, 0.5 meter west of line between		
properties of Stokes and Hartman, 400 meters south of		
Pleasant Valley wagon road, 300 meters north of river		
bank on high ridge; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 151/3):		
Copper bolt	568.31	Bull. 569
Cap on pipe	572.33	241. 500
Davenport, Rock Island, 1.5 miles above head of, cut on top		
of solid ledge of rock opposite and below guide pier 16,		

STATION	ELEVATION FEET	AUTHORITY
marked "B.M. 15" black on white (U.S.C.E.b.m. 15 R.B.)	557.90	Bull. 569
Davenport, West, at lower end of, near river bank, in west side near SW. cor. foundation of vinegar works, 0.4 meter from ground; brass bolt, marked "U.S.P.B.M." (U.S.	007.00	Dan. 000
C.E.p.b.m. 38)  Davenport, in north abutment of Rock Island and Davenport railway bridge over main channel of Mississippi river, in coping of east or upper side of abutment, on plane with sidewalk, 4.1 meters from river face of abutment and 0.1 meter inside of railing; copper bolt,	567.505	Bull. 569
marked "U.S.P.B.M." (U.S.C.E.p.b.m. 39) Davenport, Arsenal Island, at lower end of, on base of stone tower of United States arsenal stone building A1865. in east side NE. cor., 4 feet from ground; copper	573.562	Bull. 569
bolt marked "U.S.P.B.M." (U.S.C.E.p.b.m. 40)  Davenport, new city datum  Davenport ————————————————————————————————————	G606 G568 G568 583	Bull. 569 Weather Bur. Weather Bur. CM&StP CM&StP CRI&P
David	265.9,G1265 913,G914 1036,G1039 823 1083.G1089	CGW CB&Q CM&StP IaGS C&NW M&StL
Dayton, crossing, C&NW track	1116,G1116	M&StL M&StL
base of telephone pole, marked "1122.3"		Bull. 569 Bull. 569
Trav. Sta. No. 6, 1912, 1130''		Bull. 569
Dayton, T. 86 N., R. 27 W., NE. cor. sec. 31, SW. cor. crossroads, in corner of fence post; copper nail marked "1129.5"  Dayton, T. 86 N., R. 28 W., 0.25 mile south of NE. cor.	1.128.55	Bull. 569
sec. 24 at crossroads, 40 feet SW. of center of cross- roads, in base of corner fence post, marked "1,130.6"; spike ————————————————————————————————————	1,130.58	USGS
on fence line; copper nail and washer, in root of 12- inch oak tree, marked "1,126.1"	. 1.126.15	USGS
marked "1.082.5"	. 1,082.5 l	USGS
south edge of C&NW roadbed, in center of concrete culvert, marked ''1,109.4''; chiseled square	. 1,109. <u>3</u> 8 l	USGS
south edge of road, in top of concrete culvert; bronze tablet stamped "Iowa 1919 1,124"	) 1,123.970	USGS

Christopy	ELEVATION	A romeron romer
STATION root of 12-inch maple stump marked "1,153"; copper	FEET	AUTHORITY
nail and washer	1,153.05	USGS
Dayton, T. 86 N., R. 28 W., cor. secs. 16, 17, 20 and 21, 35 feet NW. of center of crossroads, in concrete base of		
fence post, marked "1,173.2"; chiseled square	1,173.24	USGS
Dayton, Tps. 86 and 87 N., R. 27 W., cor. secs. 4, 5, 32 and 33, T road north, 30 feet south of road fork, 3 feet		
north of fence line, in root of 12-inch oak tree, marked		
"1,107.6"; copper nail and washer	1,107.44	USGS
side of sec. 32 at T road south, 60 feet SW. of road		
fork, 6 feet south of fence corner; iron post stamped		USGS
"Iowa 1919 1,116"	1,115.720	abab
sec. 5, T road east, 25 feet SE. of road fork, in base of	1 110 06	TTOCO
corner fence post, marked "1,119"; spike	1,118.86	USGS
sec. 5, T road west, 25 feet northwest of road fork, in		Traca
base of corner fence post, marked "1,118.6"; spike Dayton, T. 86 N., R. 27 W., quarter corner, north side of	1,118.43	USGS
sec. 17. T road north, 25 feet south of road fork, in		Traca
corner fence post, marked ''1,117.8''; spike	1,117.62	USGS
Skillet creek, on west end and north side of bridge, in		77000
wooden top sill over ties, marked "963.8"; iron bolt	963.63	USGS
Dayton, T. 86 N., R. 27 W., one-sixteenth corner, south side of SW. 1/4 sec. 17, 50 ft. west of old abandoned		
road entering timber, 12 ft. north of fence line, in root of 10-inch oak tree; marked "1,111.5"; copper nail		
and washer		USGS
Dayton, T. 86 N., R. 27 W., quarter cor., west side sec. 19, T road east, 100 feet north of road cor., on east side		
of north and south road, in base of telephone pole,		
marked '1,136.9''; spike	1,136.91	USGS
Dayton, T. 86 N., R. 28 W., 0.25 mile south of NE. cor. sec. 24, at crossroads, 40 feet SW. of center of cross-		
roads, in base of cor. fence post, marked "1,130.6";	1 120 50	Haca
Dayton, T. 86 N., R. 28 W., at cor. secs. 9, 10, 15 and 16,	1,130.58	USGS
30 feet SE. of center of crossroads, in east end of iron	1 150 04	Hada
culvert under road; painted square "T.B.M. 1,153.2" Dayton, T. 86 N., R. 28 W., about 500 feet south of cor.	1,153.24	USGS
secs. 3, 4, 9 and 10, in driveway to Aivie Larson's resi-		
dence just opposite house, in root of boxelder; copper nail and washer marked "U.S.G.S.B.M." 65.2 feet due		
west of iron post desc. below	1,149.43	USGS
Dayton, T. 86 N., R. 28 W., about 500 feet south of corsecs. 3, 4, 9 and 10, just inside gate and on south side		
of driveway to Aivie Larson's residence; iron post		
stamped "Yowa 1921"	1,150.198	USGS
corner of secs. 33 and 34, on north side of driveway to		
David A. Miller's residence, 100 feet N.W. of house in root of maple tree (15 inches in diameter); copper nail		
and washer marked "U.S.G.S.B.M." T.B.M. 1,146.9	1,146.86	USGS
Dean	328.5,G834 1137	CB <b>&amp;Q</b> CB <b>&amp;Q</b>
Decorah	859	CRI&P
Decorah, in front of CRI&P Ry station; top of rail Decorah, in front of CM&StP Ry station; top of rail	$861.2 \\ 863.1$	Bull. 569 Bull. 569
Decorah, SE. 1/4 sec. 16, T. 98 N., R. 8 W., in foundation	500.1	1. mr. 003

	ELEVATION	
Station	FEET	AUTHORITY
of jail at NE. cor., 3 feet above ground; bronze tablet		
stamped ''904 DBQ''	904.152	Bull. 569
Decorah, T. 99 N., R. 8 W., 0.25 mile east of SW. cor. sec.		
21, NW. of road intersection; iron post marked "1148	1,148.355	. D.11 560
DBQ''	1,146.555 875	Bull. 569 CM&StP
Decorah		Weather Bur.
Dedham		CM&StP
Deep River	839	C&NW
Defiance	1280,G1275	CM&StP
De Kalb	963,G960	$^{\mathrm{CB}\&\mathrm{Q}}_{\mathrm{IC}}$
Delaware	1063,G1065	
Delaware, crossing under CM&StP	1071	$\mathbf{IC}$
Delaware	1078,G1080	CM&StP
Delaware, crossing over IC	1088,G1089	CM&StP
Delaware, crossing, IC track	G1068	CM&StP
Delaware, Sw. ¼ sec. 32, T. 88 N., R. 4 W., Nw. cor. street		
opposite post office and Knowles Hotel; iron post stamped "1089".	1,079.668	Bull. 569
Delaware, in front of IC RR station; top of rail	1,065.4	Bull. 569
Delaware		Weather Bur.
Delhi		CM&StP
Delhi near north line of sec 20 T 88 N R 4 W on east	,	
side of road, about 100 feet east of CM&StP Ry station; iron post stamped "1016"		
iron post stamped "1016"	1,007.208	Bull. 569
Deimar	001,0001	C&NW
Delmar, crossing CM&StP	819	C&NW
Delmar	821,6820	CM&StP
Delmar, crossing C&NW	820	CM&StP
Deloit		C&NW IC
Delphos	1180,01181	$^{10}$ CB&Q
Delray	1147	CB&Q
Delta		CRI&P
Delta, North Skunk river at mill	682	IaGS
Delta, Cedar creek east of	693	IaGS
Delvida	844	CRI&P
Denison	1169,G1170	$\mathbf{IC}$
Denison, crossing C&NW	1169,G1170	IC
Denison	1171,G1176	C&NW
Denison, crossing IC	1170	C&NW
Denison		Weather Bur. ISU
Dennis, crossing Chariton river	884	ISU
Denova	720 G720	CB&Q
Denver, depot, top of rail	940.1.G943	WCF&N
Denver Junction10	008.5.G1007	CGW
Derby		CB&Q
Des Moines, Keokuk line, B.M. top of monument M.P. 360	797.17	CRI&P
Des Moines, B.M., top of monument M.P. 361	796.61	CRI&P
Des Moines, B.M. top of monument M.P. 362	800.31	CRI&P
Des Moines, B.M. top of monument M.P. 363	792.47	CRI&P
Des Moines, B.M. west anchor bolt on north side of cylin-		CDT 4 D
der pier, west end of Des Moines river bridge	795.14	CRI&P
Des Moines, top of rail, center of depot	799.14	CRI&P CRI&P
Des Moines, main line	790,0799	CRI&P
Des Moines, East	797	CRI&P
Des Moines, East, crossing CB&Q	793	CRI&P
Des Moines, East, crossing CGW	793	CRI&P
Des Moines, East, crossing Wabash	793	CRI&P
·		

	ELEVATION	
STATION	FEET	AUTHORITY
Des Moines, Union Station	802.G805	CM&StP
Des Moines, crossing Valley Junction interurban line	816	CM&StP
Des Moines, East, crossing CRI&P7	96.1,G789	CGW
Des Moines, East, crossing CRI&P	94.2,G791	cgw
Des Moines, East, Des Moines river bridge	G796	CGW
Des Moines, South	800.8	CGW
Des Moines, South, crossing CB&Q	$799.9 \\ 801$	$\begin{array}{c} { m CGW} \\ { m M\&StL} \end{array}$
Des Moines, Union Station, not now used by M&StL	94 9 G792	CB&Q
Des Moines, West, old denot	801.4	CB&Q
Des Moines, West, old depot Des Moines, West, crossing CGW	803	CB&Q
Des Moines, East	795	$\mathbf{w}\mathbf{r}$
Des Moines, Union Station	800±	wr
Des Moines, West, 2d & Grand	802	FtDDM&S
Des Moines, W. 2d and Grand Ave., top of rail	800.25	DM&CI
Des Moines, East  Des Moines, SE. cor. sec. 19, T. 79 N., R. 24 W., 50 feet  N.W. center of crossroads, 2 miles north of University	797,6803	C&NW
NW center of crossroads 2 miles north of University		
Ave.: iron post stamped '935 Adi. 1903'	933.983	Bull. 569
Ave.; iron post stamped "935 Adj. 1903"  Des Moines, Youngstown Property of South side of sec. 5,	000,000	
T. 78 N., R. 23 W., CRIMP Ry bridge over Four Mue		
creek, west face of coping stone above east pier; alum-		
inum tablet stamped "796 Adj. 1903"	794.172	Bull. 569
Des Moines, 1 mile west of station, in SE. cor. park ad- joining old pumping station of Des Moines Water		
Works Co., 100 feet north of CM&StP Ry tracks; iron		
post stamped "797"	795.560	Bull. 569
Des Moines, in foundation stone 1 foot east of SW. cor. old		Dun. 000
post office, now Federal Bldg.; aluminum tablet stamped		
(1809)	807.351	Bull. 569
Des Moines, in NE, cor, vard adjoining city hall, 60 feet		
north of Locust St.; iron post stamped "804" (now city market site, post removed)		
city market site, post removed)	802.510	Bull. 569
Des Moines, in front of CRI&P Ry station; top of rail Des Moines, CRI&P Ry bridge over Des Moines river, north	799.2	Bull. 569
face of coping, 2 feet west of east end of pier on south		
bank. SE. cor. sec. 11. T. 78 N., R. 24 W.: aluminum		
tablet stamped "797 Adj 1903"	795.206	Bull. 569
Des Moines, Twenty-eighth St. crossing of CRI&P Ry,		
SW. 1/4 NW. 1/4 sec. 8, T. 78 N., R. 24 W., 30 feet north		
bank, SE. cor. sec. 11, T. 78 N., R. 24 W.; aluminum tablet stamped "797 Adj 1903"	802.978	Bull. 569
Des Moines	G861	Weather Bur.
Des Moines, Locust St. bridge, on 2d pier from west end; zero of gage	773 605	City Engineer*
Des Moines Junction	1163	CB&Q
De Soto	888.G892	CRI&P
De Soto, 1.5 miles SW, of, in SW, stone abutment of	,	
bridge 368; aluminum tablet	920.595	Bull. 569
De Soto, 150 feet south of track, opposite west end of		
station, 2 feet north of wire fence; iron post	888.266	Bull. 569
De Soto, in front of CRI&P Ry station; top of rail		Bull. 569
Devon1 Dewar		CGW CGW
Dewitt		CM&StP
Dewitt, crossing C&NW	701,G687	CM&StP
Dewitt, crossing C&NW	683,G683	C&NW
De Witt, crossing CM&StP	684	C&NW
Dexter, in front of CRI&P Ry station; top of rail Dexter, in stone water table of National Bank of Dexter,	1,148.3	Bull. 569
pexter, in stone water table of National Bank of Dexter,		•

<sup>\*</sup> By checked levels, Jan., 1925. This gage zero is believed to be zero of City datum and 0.88 foot higher than zero of gage tied to by U. S. Corps of Engineers in 1910.

# DEXTER-DOUGLASS

	ELEVATION	
STATION	FEET	AUTHORITY
on north side of building, 1 foot from NW. cor.; aluminum tablet	1,152.335	Bull. 569
Dexter, 150 feet south of track, opposite point 300 feet	1,202.000	244. 000
east of station, 50 feet north of wagon road, opposite	1 1 4 4 0 4 0	70 11 700
S. C. Paton & Co.'s elevator; iron post  Dexter	1,144.048	Bull. 569 CRI&P
Diagonal	1094,G1087	CB&Q
Diagonal, crossing over CGW	1099	CB&Q
Diagonal, CGW track	1079	CB&Q
Diagonal10 Diagonal, crossing CB&Q	G1088	$\begin{array}{c} \operatorname{CGW} \\ \operatorname{CGW} \end{array}$
Dickens	1324.G1330	CM&StP
Digby	825	CRI&P
Dike		C&NW
Dinsdale	983,G977 934	$egin{array}{c}  ext{M\&StL} \  ext{CRI\&P} \end{array}$
Dion	1385	CM&StP
Divide Spur	1548	CRI&P
Dixon	675,G663	CM&StP
Dixon, crossing CRI&P	664,G652	$\begin{array}{c} { m CM\&StP} \\ { m CRI\&P} \end{array}$
Dixon, crossing CM&StP	655	CRI&P
Dolliver	1287	C&1 W
Donohue	713,G700	CM&StP
Donnan, crossing CRI&P, union station	1150,01150	$rac{ m CM\&StP}{ m CRI\&P}$
Donnelley	756.G760	CB&Q
Donnelley, RR bridge over White Breast creek near	753.22	$^{\mathrm{CB\&Q}}$
Donnelley, bed of White Breast creek at RR bridge, near	723	$\mathbf{IaGS}$
Donnelley, T. 76 N., R. 20 W., SW. cor. sec. 15, 28 feet		
north and east of center of crossroads, 3 feet west of fence, 10 feet north of corner fence post; iron post		1
stamped "781 Iowa"	779.879	Bull. 569
Donnellson, Fort Madison line		$^{\mathrm{CB}\&\mathrm{Q}}$
Donnellson, crossing Keokuk-Mt. Pleasant line	703,G703 702	CB&Q
Donnellson, Keokuk line	1302.1	${ m CB\&Q} \ { m CStPM\&O}$
Doon	1276	$\mathbf{G}\mathbf{N}$
Dorchester, Allamakee Co., T. 100 N., R. 5 W., north of		
quarter corner east side sec. 16, 60 feet south of SE. cor. schoolhouse, north side of road; iron post stamped "842"		
DUBQ''	843,468	Bull. 569
Dorchester, 1 mile west of, T. 100 N., R. 6 W., NW. 1/4 sec.		
23, NW. of road intersection by cemetery; iron post stamped "1087 DBQ"	- 000 005	T 11 500
Doris	1,086.825 $1012$	Bull. 569 IC
Dotson	847.71	DM&CI
Doubleday		CM&StP
Douds, B.M. top of monument M.P. 52 (U.S.C.E.b.m. 36) Douds, B.M. top of monument M.P. 53 (U.S.C.E.b.m. 37)	603.38	CRI&P
Douds, B.M. top of monument M.P. 53 (U.S.C.E.b.m. 37) Douds, B.M. top of monument M.P. 54 (U.S.C.E.b.m. 38)	$606.18_{-} \\ 609.05_{-}$	CRI&P CRI&P
Douds, top of rail, center of depot	608.9	CRI&P
Douds, B.M. top of monument M.P. 55 (U.S.C.E.b.m. 39)	610.11	CRI&P
Douds, B.M. top of monument M.P. 56 (U.S.C.E.b.m. 40)	605.65	CRI&P
Douds and Leando, top of upstream end of north abut-	619.90	Dv11 560
ment of highway bridge between (U.S.C.E.b.m. 90) Dougherty	$612.20 \\ 1099$	Bull. 569 C&NW
Douglass, Fayette Co., T. 95 N., R. 9 W., 0.4 mile north by		
0.1 mile west of SE. cor. sec. 22, opposite road inter-		
section by east-west road, east side; iron post stamped	1,152.424	Bull. 569
1101 DDW	1,100.303	Dun. 505

	ELEVATION	•
STATION	FEET	AUTHORITY
Dover Mills, Fayette Co., level of flood plain	863	IaGS
Dow City		
Dow City	1131,G1132	C&NW
Dow City	G1142	Weather Bur.
Downey	678,G681	CRI&P
Dows	1150,G1142	
Drake Siding, M.P. 106	861	CB&Q
Drakeville	878,6891	CRI&P
Dubuque	G616	CGW CGW
Dubuque, Fairground		CGW
Dubuque, crossing CM&StP	608.2	CGW
Dubuque	606.G610	CM&StP
Dubuque, crossing I.C.	607	CM&StP
Dubuque, North Junction switch	606	CM&StP
Dubuque, crossing CGW	608.G611	CM&StP
Dubuque Shops	611,G614	CM&StP
Dubuque	607,G616	IC
Dubuque, crossing CB&Q	610,G616	ĪC
Dubuque, crossing CM&ŠtP	607,G616	IC
Dubuque, curbstone near lamp-post at junction of Dodge	G012	CB&Q
street with North Cascade road	G841	USGS
Dubuque, city B.M. on doorstep of building, First and	0041	abab
Main streets		Miss. River Com.
Dubuque, Mississippi river, zero of U.S. gage	G605	Miss. River Com.
Dubuque, Mississippi river, high water	G607	Miss. River Com.
Dubuque	G698	Weather Bur.
Dubuque, NE. cor. customhouse, copper bolt marked U.S.		
P.B.M.b.m. 279  Dubuque, 3 miles below, on property of Joe Herod, 15	644.838	Bull. 569
Dubuque, 3 miles below, on property of Joe Herod, 15		
meters back from river bank, 0.5 meter from right of		
way fence of railroad, 15 meters north of perpendicular		
rock cliff, 100 meters below railroad bridge 92K; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
179/3):		
Copper bolt	608.53	Bull. 569
Cap on pipe	612.49	Dan. oob
Dubuque, 0.8 mile above railroad bridge over river at, on		
right bank below shops of CM&StP Ry, 0.5 meter north		
of SW. cor. small stockyards which are just south of		
roundhouse of that RR. and 50 meters SE. of roundhouse		
and 25 meters back from bank of slough; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 180/3):	607.40	D. II. 500
Cap on pipe	607.48 611.48	Bull. 569
Dubuque, 3 miles above, at foot of bluffs, 8 meters to-	011.48	
ward bluffs from center of CM&StP Ry track, 125 met-		
ers above signboard reading "Slow, 6 miles per hour,"		
100 meters below a point opposite ferry landing on left		
bank; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.b.m. 181/3):		
Copper bolt	614.35	Bull. 569
Cap on pipe	618.30	
Dubuque, NE. cor. Grandview and Dodge Sts.; iron post		
stamped "875"	874.486	Bull. 569
Dubuque, T. 88 N., R. 2 E., SW. ¼ sec. 15, south side of road, 60 feet from center of porch; iron post stamped		
"1071"post stamped		Bull 560
Dubuque, 3.2 miles below, 660 feet below milepost 121-40,	1,070.924	Bull. 569
370 feet above upper headblock of siding at Cattese and	_	
TI THE THE PARTY OF THE PARTY O	•	

	ELEVATION	
STATION	FEET	AUTHORITY
295 feet below Creston Crossing, on lower side of coulee, 25 feet west of center of track, on natural ledge of		
rock, marked "U□S"; highest point in square (U.S.		
C.E.t.b.m. 301)	616.807	Bull. 569
Dubuque, 1 mile below, at point of bluff on south side of Rugdale hollow, through which IC RR passes from river,		
36 feet from t.b.m. 299. 623 feet from CM&StP Ry		
bridge, 180 feet above house owned by R. Smith, 131		
feet west from center of track, 43 feet NW. from blazed elm on upper side of large flat rock; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.p.b.m. 282 and 283):		
Copper bolt	610.038	Bull. 569
Cap on pipe	614.037	
ravine through which the IC Ry passes from river, 623		
feet below bridge on CM&StP Ry track, 164 feet above		
house owned by R. Smith, 98 feet west of center of CM&StP Ry track, on top of large flat rock, marked		
"U_S"; highest point in square (U.S.C.E.t.b.m. 299)	610.779	Bull. 569
Dubuque, in southern extremity of, at bluff, 0.1 mile below		
sawmill, directly opposite end of runway to mill, 305 feet above headblock of sawmill siding, 26 feet west		
from center of siding, in recess in face of rock bluff;		
copper bolt (U.S.C.E.p.b.m. 281)	612.463	Bull. 56 <b>9</b>
Dubuque, at river front below harbor, on SW. cor. Houser & Linnehan's boat store, 1½ feet above corner, on water		
table, in center of buttress, marked "O"; highest point		
of circle in circle (U.S.C.E. old U.S.b.m. b)	606.311	Bull. <b>569</b>
Dubuque, at river front below harbor, on Diamond Joe store, on upstream end of upstream stone doorsill,		
marked "\sum '; highest point of circle in square (U.S.		
C.E. old U.S.b.m. a)	607.450	Bull. 569
Dubuque, on IC station, at north end, about in center of east side of tower, in water table; highest point in		
square (U.S.C.E.t.b.m. 297)	608.309	Bull. 569
Dubuque, on west end and first pier of IC RR bridge		
across Mississippi river, at upper end of pier, near its west edge, about in center of bridge-seat stone; copper		
bolt marked "U.S.⊙P.B.M." (U.S.C.E.p.b.m. 280)	618.106	Bull. 569
Dubuque, north side of Fourth St., opposite CM&StP Ky	,	
station, on Page House, on water table 6 inches in front of west window, marked "UDS"; highest point in		
square (U.S.C.E.t.b.m. 296)	608.391	Bull. 569
Dubuque, SW. cor. First and Main Sts., near SE. cor.		
Jess's store, on north end of doorstep; highest point in square (U.S.C.E. city b.m.)		Bull. 569
Dubuque, on north side of Second St., at east door of older		Bun. 505
part of Julien House, on east end of doorstep, which is	ŀ	
about 32 feet west of Iowa St.; highest point in square	612.626	Bull. 569
(U.S.C.E. city b.m)  Dubuque, at NE. cor. U. S. post-office building, 10 inches	, 012.020 }	ъш. 903
south of north corner and 3 feet above stone pavement;		
copper bolt marked "U.S. P.B.M." (U.S.C.E.p.b.m.	011 000	Bull. 569
Dubuque, on SW. cor. Elm and Ninth Sts., on end of curb		Dan. 003
abutting against NE. cor. CM&StP freight house.		
marked "US"; highest point in square (U.S.C.E. t.b.m. 295)	. 607.5 <del>4</del> 8	Bull. 569
Dubuque, at NW. cor. Fifteenth and Pine Sts., on south		2 000
side of Iowa Coffin Co.'s warehouse, on west end of first	;	

OTHER TRANSPORT	ELEVATION	
STATION  decreter from Direct a norman helt marked (ITIC)	FEET	AUTHORITY
doorstep from Pine St.; copper bolt marked "U.S. P.B.M." (U.S.C.E.p.b.m. 278)	609.624	Bull. 569
Dubuque, 0.5 mile below CM&StP Rv shops, at SE, cor.	,	ъш. 000
Iowa Coffin Co.'s warehouse, on top of foundation stone;		
highest point in square (U.S.C.E.t.b.m. 294)		Bull. 569
Dubuque, in upper part of, on line of CM&StP Ry, at NW.		
cor. of their freight-car repair shop, on SW. cor. of foundation stone, marked "U□S"; highest point in	•	
square (U.S.C.E.t.b.m. 293)	611.085	Bull. 569
Dubuque, Eagle Point, 0.2 mile below Dubuque Wooden-		
ware Co.'s works, on line of CM&StP Ry, 2,181 feet		
above milepost 115-46, 394 feet above bridge 114, 267 feet below bridge 1141/2, over sewer, on upper end of	:	
mound built up from earth excavation from opposite side	<del>}</del>	
of track, 11/2 feet west from east fence and 13.6 feet	;	
from center of track; copper bolt in tile surmounted by	•	
iron pipe (U.S.C.E.p.b.m. 276 and 277):  Copper bolt	608.017	Bull. 569
Cap on pipe	612.010	ъш. эоэ
Dubuque, Eagle Point, in main building of Dubuque	,	
Woodenware Co., on river bank, in foundation on south		
side, 1.8 feet from west corner and 2.1 feet above	<b>;</b>	
ground; copper bolt, marked "U.S. P.B.M." (U.S. C.E.t.b.m. 275)	605.875	Bull. 569
Dubuque, Eagle Point, on Dubuque Woodenware Co.'s dry-	. 000.010	Duii. 600
ing house, east of railroad tracks, on top of stone foun-		
dation, 10 feet from west side, on lower side of building,		
marked "US"; highest point in square (U.S.C.E. t.b.m. 291)		Bull. 569
Dubuque, Eagle Point, at prominent point of river bank	. 000.004	Dull. 303
covered with large rock, above ferry landing, on SW.		
part of very large triangular-shaped rock lying at water's edge; highest point in bottom part of letter		
water's edge; highest point in bottom part of letter	594.527	Bull. 569
"B" cut on rock (U.S.C.E. old U.S.b.m. 23)	094.041	806 iima
milepost 113-48, midway between two small wooden-box		
culverts, 20 feet west of center of track, on natural ledge,		
marked "U S"; highest point in square (U.S.C.E.	010 240	D-11 500
t.b.m. 289)	618.348	Bull. 569
small stone culvert on which t.b.m. 287 is located, 436		
feet below bridge 122K, 896 feet below railroad plat-		
form in front of Mr. James Cushing's house, 23.3 feet		
east of center of track, on right of way; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 273 and		
274):		
Copper bolt	608.283	Bull. 569
Cap on pipe	612.279	
Dubuque, 2.3 miles above Eagle Point, 1,569 feet below milepost 112-49, 1,161 feet above bridge 120K, 377 feet		
below bridge 122K, 836 feet below small railroad		
platform in front of Mr. Cushing's house, 6 feet west		
from center of track, on upper end of capstone of		
small stone culvert, marked "ÜDS"; highest point in square (U.S.C.E.t.b.m. 287)	611 406	D11 #60
Dudley67	611.406 75.18 G678	Bull. 569 CB&Q
Duggan, Jackson Co.	830	USGŠ
Duggan, center Butler Tp	1010	USGS
Dumas, Mo., base of rail opposite E. end depot	556.6,G559	AT&SF
Dumfries	124 <b>1</b> 978 3 <b>G</b> 977	$egin{array}{c} \mathrm{WRR} \\ \mathrm{CGW} \end{array}$
	,,0,0,0011	Odw

	ELEVATION	
STATION	FEET	AUTHORITY
Dumont, crossing C&NW97	8.40,G978	CGW
Dumont	975	C&NW
Dumont, crossing CGW	978	C&NW
Dunbar		$rac{ m CM\&StP}{ m CM\&StP}$
Duncombe		IC
Duncombe, T. 88 N., R. 27 W., at west quarter cor. of	,	20
NW. quarter of sec. 4, at T road south, 90 feet SE. of		
road corners, just inside fence line, in root of large		<b>TYO. 0.0</b>
maple tree, marked ''1,105.4''; copper nail and washer	1,105.31	USGS
Duncombe, T. 88 N., R. 27 W., cor. secs. 4, 5, 8 and 9, 50		
feet SW. of center of crossroads, just inside fence corner, in root of elm tree, marked "1,103.8"; copper		
nail and washer	1,103.71	USGS
Dundee, at CGW Ry station; iron post stamped "997	_,	
DBQ''	997.847	Bull. 569
Dundee, in front of CGW Ry station; top of rail	998.0	Bull. 569
Dundee Dunkerton		$\begin{array}{c} \operatorname{CGW} \\ \operatorname{CGW} \end{array}$
Dunlap		C&NW
Dunlap		IC
Dunreath	739	$\mathbf{w}\mathbf{R}\mathbf{R}$
Dunreath, in front of Wabash RR station; top of rail		T 11 F40
(U.S.C.E.b.m. 55)	740.0	Bull, 569
milepost "Des Moines 27"; top of rail set vertically		
(U.S.C.E.b.m. 56) not found in 1926	757.63	Bull. 569
Dunreath, T. 77 N., R. 20 W., 0.5 mile east of SW. cor.	,	
sec. 9. 15 feet west and 50 feet north of center of cross-		
roads, 3 feet east of fence; iron post stamped "824	000 004	D-11 500
Iowa''		Bull. 569 CGW
Durango, T. 89 N., R. 1 E., near SE. cor. sec. 16, east	041.0,0044	CGW
end of south abutment of wagon bridge over south fork		
of Maquoketa river; bronze tablet stamped "732 DBQ"	733.564	Bull. 569
Durant	713,G717	CRI&P
Durham		CB&Q
Dyersville		$\frac{\text{CGW}}{\text{IC}}$
Dyersville, about 100 feet north of east end of IC RR	941,0341	10
station; iron post stamped "952"	942.308	Bull. 569
Dysart	. 973,G968	CRI&P
Eagle Grove	.1114,G1115	C&NW
Eagle Grove, crossing CGW	1107	C&NW CGW
Eagle Grove	105.4 G1109	CGW
Eagle Point, see Dubuque, Eagle Point	100.1,01100	0411
Earlham, 100 feet south of track, opposite point 560 feet	;	
east of station, 150 feet south of derailing switch, 2		
feet north of fence; iron post	1,104.188	Bull. 569
Earlham, in front of CRI&P Ry station; top of rail Earlham, 1.5 miles east of, in south side of a concrete	1,106.1	Bull. 569
culvert, near telegraph pole 485-30; aluminum tablet		Bull. 569
Earlham		CRI&P
Earling	.1307,G1309	CM&StP
Earlville		IC
Earlville, bottom step of station platform Earlville, B.M. in east end stock yard	. G1005 . G999	USGS USGS
Earlylle, T. 89 N., R. 3 W., NW. 1/4 sec. 33, near north line,	. ασσσ	avau
where highway goes south from IC RR; iron post		
where highway goes south from IC RR; iron post stamped "1022"	1,011.966	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Early	1332,G1331	C&NW
Easley	1152	FtDDM&S
East Clayton	G625	CM&StP CRI&P
East Pleasant Plain	100,0140	OWIGH
(U.S.C.E.b.m.)	622.93	Bull. 569
Eckard, 1 mile below, opposite head of McMillan Island,		
on line of CM&StP Ry, 1,722 feet above milepost 79		
from La Crosse, 722 feet above first road crossing below		
Eckard, 27 feet west of center of track, on an embedded		
rock, marked "US"; highest point in square (U.S. C.E.t.b.m. 245)	623.014	Bull. 569
Eckard, 0.2 mile below, where CM&StP Ry comes to bluff,	020.011	242. 000
215 feet above mile post 78-83, opposite upper end of		
curve. 96\% feet west of center of track, 4\% feet from		
corner of fence, between this fence and highway which		
runs parallel with railroad, 82 feet above cluster of		
butternut trees; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 243 and 244):		
Copper bolt	620.008	Bull. 569
Cap on pipe	624.015	
Eckard	623.G623	CM&StP
Eddyville	675,G676	M&StL
Eddyville, crossing CRI&P	702 682	$egin{array}{c} M\&StL \ M\&StL \end{array}$
Eddyville, low water in Des Moines river at	677	M&StL M&StL
Eddyville, B.M. top of monument M.P. 88 (U.S.C.E.b.m.	• • • • • • • • • • • • • • • • • • • •	
51)	686.76	CRI&P
Eddyville, B.M. top of monument M.P. 89 (Last tie to	4=4.44	~~~
U.S.C.E.b.m. 52)	670.33	CRI&P CRI&P
Eddyville, B.M. top of monument M.P. 90 Eddyville, top of rail, center depot	671.02 $671.7$	CRI&P
Eddyville, B.M. top of monument M.P. 92	674.92	CRI&P
Eddyville, B.M. top of monument M.P. 93	673.84	CRI&P
Eddyville, B.M. top of monument M.P. 94	685.38	CRI&P
Eddyville, in front of M&StL station; top of rail (U.S.C.		T-11 F00
E.b.m. 53)	669.79	Bull. 569
Eddyville, in north end of timber cap on bank bent of piling at east end of C&NW Ry bridge over Des Moines		
river; top of railroad spike (U.S.C.E.b.m. 74)	685.44	Bull. 569
Eddyville, top of downstream end of third pier from east		
end of M&StL RR bridge over Des Moines river (U.S.		- 11
C.E.b.m. 75)		Bull. 569
Eddyville, top of downstream end of first pier from left bank or Eddyville side of highway bridge over Des		
Moines river (U.S.C.E.b.m. 76)		Bull. 569
Eddyville, on south end of water table of post-office build-		
ing (De Long Building), at connection of cement blocks		
and brick wall, first and second building north side of	051 01	70 17 500
Main St. (U.S.C.E.b.m. 77)	671.61	Bull. 569
Eddyville, upstream edge of north pier tube at east end of Gately highway bridge (U.S.C.E.b.m. 73)	682.98	Bull. 569
Edgewood		CM&StP
Edgewood, T. 91 N., R. 4 W., NW. cor. sec. 22, at NW.		
cor. schoolhouse; iron post stamped "1168",	1,168.870	Bull. 569
Edgewood, T. 91 N., R. 5 W., quarter corner south side sec.  16; iron post stamped "1240 DBQ"	1 041 700	T11 500
Edmore	1,241.790 613	$\begin{array}{c} \mathrm{Bull.} \ 569 \\ \mathrm{CM\&StP} \end{array}$
Edmore, in front of CM&StP Ry station; base of rail	010	OHIGHE
(U.S.C.E.)	614.74	Bull. 569
Edmore, Island 217, on left bank of, 10 meters from river	•	

G-1	ELEVATION	
STATION	FEET	AUTHORITY
bank, 0.25 mile below head of island; copper bolt in tile		
surmounted by iron pipe (U.S.C.E. 182/2):	200.00	T. 11 F40
Cap on pipe	600.02	Bull. 569
Cap on pipe	603.99	
Edmore, 0.8 mile above, on right of way CM&StP Ry		
track, 531 feet below south end of bridge 124K over		
Little Maquoketa river, 6.8 miles above Dubuque, on		
west side of track, 2 feet from fence, opposite center		
of curve in railroad line; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.p.b.m. 271 and 272):	612.309	Dall 560
Cap on pipeEdmore, 1.5 miles above Little Maquoketa river bridge, on	616.308	Bull. 569
Edmore 15 miles above Little Magnoketa river bridge on	010.308	
line of CM&StP Ry, 0.7 mile above Zollicoffer lake, 1,076		
fact above milenost 109.52 12 feet west of track on		
feet above milepost 109-52, 12 feet west of track, on large flat rock inside of bank, inclining perhaps 30° to horizon, marked "UDS"; highest point in square (U.		
horizon marked "IIIIS": highest point in square (II.		
S.C.E.t.b.m. 283)	616.590	Bull. 569
Edno	1417	IC
Egan, Allamakee Co., T. 96 N., R. 4 W., 1,000 feet west of		
NH: gor gag 2 in NH: gor genoninging No 1 iron hagt		
stamped ''1137 DBQ''	1,137.865	Bull. 569
stamped "1137 DBQ"Ehler	970	IG
Filhoren	840,G836	CM&StP
Elberon crossing C&NW	823	CM&StP
Elberon	821	C&NW
Elberon, crossing CM&StP	822	C&NW
Eldon, Keokuk line, B.M. top of monument M.P. 62	622.07	CRI&P
Eldon, B.M. top of monument M.P. 63	621.86	CRI&P
Eldon, top of rail, center of depot	628.24	CRI&P
Eldon, on south side street crossing highway bridge, B.M.		~~~~
top of monument M.P. 64 (U.S.C.E.b.m. 42)  Eldon, 1 mile NW. of, B.M. top of monument M.P. 65	625.86	CRI&P
Eldon, 1 mile NW. of, B.M. top of monument M.P. 65	27.0.00	
(U.S.U.E.D.III. 43)	619.80	CRI&P
Eldon, B.M. top of monument M.P. 66	630.35	CRI&P
Eldon, B.M. top of monument M.P. 67	638.16	CRI&P
Eldon, 4 miles NW. of, B.M. top of monument M.P. 68	620.00	CDT & D
(U.S.C.E.b.m. 44)	632.22	CRI&P
Eldon, Kansas City line Eldon, on top of and at NW. cor. first stone pier from	019,0000	CRI&P
north and of CRI&P Ry bridge (HGCEhm 88)	623.68	Bull. 569
north end of CRI&P Ry bridge (U.S.C.E.b.m. 88) Eldon, on top of and at NW. cor. first stone pier from	025.00	ъш. 505
north end of highway bridge (U.S.C.E.b.m. 87)	622.23	Bull. 569
Eldors	1071.G1064	M&StL
Eldora	1067.G1059	M&StL
Eldora	1051.91	C&NW
Eldora, crossing M&StL	1061	C&NW
Eldora	G1070	Weather Bur.
Eldora, Court House hill	1110	IaGS
Eldora mill, low water below dam	955	IaGS
Eldora Junction	956	C&NW
Eldorado, Fayette Co. Eldorado, T. 95 N., R. 8 W., 0.5 mile north of center of	924	IaGS
Eldorado, T. 95 N., R. 8 W., 0.5 mile north of center of		,
sec. 21. in schoolyard; iron post stamped "983 DBQ"	983.688	Bull. 569
Eldridge Junction	80 <b>4,</b> G⁄794	${ m CM\&StP}$
Eldridge JunctionEldridge Junction, junction with Maquoketa line	802	CM&StP
Elgin	966	C&NW
Elgin	834	CRI&P
Elgin, floor of Turkey river bridge	G807	USGS
rord, iron post stemped (1972 DEC.)	077 505	D11 #60
yard; iron post stamped "876 DBQ"	877.585	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Elgin, in front of CRI&P Ry station, top of rail Elgin, T. 94 N., R. 7 W., SE. ¼ sec. 16, in school yard;	835.1	Bull. 569
Elgin, T. 94 N., R. 7 W., SE. 1/4 sec. 16, in school yard; iron post stamped "989 DBQ"	724.5	Bull. 569 Bull. 569
stamped ''759 DBQ'' as reset in 1919 Elkader Elkhart Elkhart, T. 81 N., R. 23 W., about 0.4 mile east of NW.	761.610 722,726 975	Bull. 569 CM&StP CRI&P
cor. sec. 16, SE. cor. crossroads; spike in telephone pole, marked "U.S.B.M. 898".	896.96	Bull. 569
Elkhart, T. 81 N., R. 23 W., SE. cor. sec. 17; spike in telephone pole, marked "U.S.B.M. 981" Elkhart, T. 81 N., R. 23 W., NW. cor. sec. 28; iron post	979.38	Bull. 569
stamped (1986)	984.513	Bull. 569
Elkhart, T. 81 N., R. 23 W., SW. cor. sec. 28; spike in telephone pole, marked "U.S.B.M. 985" Elkhart, T. 81 N., R. 23 W., SE. cor. sec. 32; spike in	983.84	Bull. 569
telephone pole, marked "U.S.B.M. 982". Elkhart, T. 80 N., R. 23 W., NE. cor. sec. 6; iron post	981.26	Bull. 569
stamped ''959'' Elkhart, T. 81 N., R. 23 W., SW. cor. sec. 31; spike in	958.215	Bull. 569
telephone pole, marked "U.S.B.M. 974"	972.56 1130 G655	Bull. 569 CM&StP CM&StP
by iron pipe (U.S.C.E.b.m. 164/3):  Copper bolt  Cap on pipe  Elk River Junction, opposite north end of station at, 0.5  meter east of west right-of-way fence of CM&StP Ry; copper bolt in tile surmounted by iron pipe (U.S.C.E.	576.83 580.86	Bull. 569
b.m. 164/4): Copper bolt Cap on pipe  Elk River Junction, 0.25 mile above Island 276, 0.25 mile below head of slough, 30 meters from shore, in bunch of tall cottonwood trees; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 165/2):	593.23	Bull. 569
Copper bolt	581.60	Bull. 569
Copper bolt	586.32	Bull. 569
Copper bolt	579.22 583.24	Bull. 569
Elk River Junction Elliott Ellmaker	. 595.G594 .1083.G1075	CM&StP CB&Q CB&Q

# ELLS-ENTERPRISE

	ELEVATION	
STATION	FEET	AUTHORITY
Ells	1221	IC
Ellston	1214,G1214	CB&Q
Ellsworth	1082,G1084	C&NW
Ellsworth, Minn.	1455	CRI&P
Ellsworth Spur	1199	CRI&P
Elma	1189,G1188	cgw
Elmira		CRI&P
Elmore, Minn.	1129	C&NW
Elm Springs	1221	${ m CM\&StP}$
Elm Springs, 5 kilometers northwest of, 13 meters west of		
railway, 8 meters north of road, on south line of sec. 5,		
T. 97, R. 48, 2 meters north and 1 meter east of fences,		
0.2 meter below rails; top of iron pipe (U.S.C.&G.S.b.m.	1 000 100	
D)	1,280.109	Bull. 569
Elon, Allamakee Co., 2,500 feet east of, 1/4 mile east of		
center sec. 33, T. 98 N., R. 4 W., NE. of fence post NE.	1 000 500	D 11 540
of schoolhouse; iron post stamped "1238 DBQ"	$1,\!238.726$	Bull. 569
Elon, T. 98 N., R. 4 W., sec. 16, 200 feet east of bridge		
over small tributary of Village creek, on north side of road and south side of fence; iron post stamped "834		
road and south side of fence; from post stamped '834	025 510	D11 #40
DBQ	835.510	Bull. 569
Elrick Junction		M&StL
Elwood		CM&StP
Ely		CM&StP
Emeline, Jackson Co.	963	CRI&P USGS
Emeline, Center Brandon Tp	955	USGS
Emerson	6 24 G1057	CB&Q
Emmetsburg	1939 G1937	CM&StP
Emmetshare erossing CRI&P	1229 G1234	CM&StP
Emmetsburg, crossing CRI&P	1238 G1234	CRI&P
Emmetsburg, crossing CM&StP	1237	CRI&P
Enterprise	992	CRI&P
Enterprise, 4 miles east, 1 mile north of, T. 80 N., R. 22	002	OMIWI
Enterprise, 4 miles east, 1 mile north of, T. 80 N., R. 22 W., at cor. secs. 7, 8, 17 and 18, 25 feet east and 20		
feet north of crossroads, 0.7 foot south of corner fence		
post, top of 0.5-inch gas pipe, marked "977.4"	977.63	USGS
post, top of 0.5-inch gas pipe, marked "977.4" Enterprise, 3 miles east, 1 mile north of, T. 80 N., Rs. 22		
and 23 W., at cor. secs. 7, 12, 13 and 18, 25 feet south		
and 20 feet west of crossroads, on concrete post; bronze		
tablet stamped "Prim. Trav. Sta. No. 15-LS1924-Ia."		
marked ''984.1''	984.313	USGS
Enterprise, reference mark is 39.4 feet N.80° E. of "L.		
S. No. 16", in SE. angle of crossroads, top of east head-		
ing of concrete culvert; chiseled square	984.38	USGS
Enterprise, 2 miles east, 1 mile north of, T. 80 N., R. 23		
W., at cor. secs. 11, 12, 13 and 14, 26 feet south and 17		
feet east of crossroads, in top of east heading of con-		
crete culvert; chiseled square, marked "986.8"	987.11	USGS
Enterprise, 1 mile north, 1 mile east of, T. 80 N., R. 23		
W., at cor. secs. 10, 11, 14 and 15, in NW. angle of		
crossroads, top of concrete corner fence post; chiseled square, marked "999.1"	000.10	
square, marked "999.1"	999.40	USGS
Enterprise, 1 mile north of, in SE. cor. J. Wohlwind's farm, on north side of east and west road, 2.5 feet NW.		
farm, on north side of east and west road, 2.5 feet NW.		
corner post of field; iron post stamped "Prim. Trav.	001 000	TTOOO
Sta. No. 5", marked "980.7"	981.023	USGS
Enterprise, reference mark is 57.5 feet S.45°E. of P.T.		
Sta. No. 5, 12 feet west of railroad, 16 feet south of	978.15	USGS
road, top of south end of tile; chiseled square Enterprise, 260 feet south and 150 feet west of station,	910.19	6060
THEORPITAGE BOOK TOOK BORKER WITH TOO TEEK MEST OF STREET,		

Station	ELEVATION FEET	AUTHORITY
220 feet north of road junction, on east side of road, in root on west side of 2-foot maple tree; copper nail and washer, marked "1001.1"	1,001.40	USGS
Enterprise, 0.5 mile west of, T. 80 N., R. 23 W., at corsecs. 16, 17, 20 and 21, in SE. angle of crossroads, top of east end of tile, painted square, marked "987.9" Enterprise, 1 mile south, ½ mile west of, T. 80 N., R. 23 W., at cor. of secs. 20, 21, 28 and 29, 25 feet east of T-	988.18	USGS
road west, 1 foot west of corner of fence post; top of iron rod, marked "963.4"  Enterprise, 1 mile south, 1½ miles west of, T. 80 N., R. 23 W., SE. cor. sec. 19, 40 feet NW. center of cross-	963.70	USGS
roads; iron post stamped "938 ADJ. 1903 936.537"	936.837	USGS
Epworth, I. C. road crossing at stock yards	G1048	USGS
Epworth	1034	IC
Ericson	1127	FtDDM&S
Ericson, T. 83 N., Rs. 25 and 26 W., cor. secs. 1, 6, 7, and 12, center of road forks at T road south; chiseled square on top of corner stone, marked "1144.1"	1,143.18	Bull. 569
Ericson, T. 83 N., R. 25 W., SW. cor. sec. 7, on north-south township line between Colfax and Worth townships, NE. cor. crossroads, at fence corner, top of large	1,110.10	<b>Dan.</b> 600
rock; chiseled square, marked "1121.96". Ericson, T. 83 N., R. 25 W., NW. cor. sec. 17, SE. cor.	1,121.06	Bull. 569
crossroads, at NW. cor. grove; copper nail in root on north side of soft-maple tree, marked "1106.95" Ericson, T. 83 N., R. 25 W., cor. secs. 8, 9, 16, and 17, in	1,106.04	Bull. 569
center of crossroads; chiseled square on top of corner	1 001 45	70.11 #40
stone, marked "1082.4"	1,081.47	Bull. 569
Essex	1292 G1287	CB&Q CRI&P
Estherville, crossing M&StL	1290	CRI&P
Estherville	1295,G1298	M&StL
Estherville, crossing CRI&P	1277, <b>G</b> 1287	M&StL
Estherville		Weather Bur.
Euclid		IC
Evans, Keokuk line, B.M. top of monument M.P. 101		CRI&P CRI&P
Evans, B.M. top of monument M.P. 102		CRI&P
Evans, top of rail, center of depot	732.6	CRI&P
Evans, B.M. top of monument M.P. 103	731.73	CRI&P
Evans, B.M. top of monument MP. 307	747.66	CRI&P
Evanston, T. 88 N., R. 28 W., near quarter corner, S. side		
sec. 2, at road crossing, 40 ft. SW. of road crossing, in base of railroad signpost, marked "1,112.6"; spike	1,112.45	USGS
Evanston, T. 88 N., R. 28 W., quarter corner, W. side of	1,112.40	dbdb
sec. 12, in base of railway signpost, marked "1,104.9"; spike	1,104.74	USGS
Evanston, 150 ft. SE. of CGW RR station, 90 ft. S. of schoolhouse, 45 ft. NE. of crossroads; iron post stamped		
"Towa 1919 1,109" Evanston, 0.74 mile east of, at road crossing, 20 ft. N. of	1,108.421	USGS
crossing, in base of railway signpost, marked "1,105.3"; spike	1,105.15	USGS
crossing, in base of railway signpost, marked "1,101.3"; spike	1,101.14	USGS
Evanston Junction	1105	FtDDM&S
Eveland, see Givin	1000 67007	0350017
Everly Ewart	1360,G1365 98 <b>5</b>	$egin{array}{c}  ext{CM\&StP} \  ext{M\&StL} \end{array}$

	ELEVATION	
STATION	FEET	AUTHORITY
Excelsior	713,G702.	M&StL
Exira	1224,G1227	CRI&P
Exline		CB&Q
Fairbank9		CGW
Fairfax		C&NW
Fairfax		CM&StP
Fairfield	766,G780	CRI&P
Fairfield, crossing CRI&P	771,6780	CRI&P
Fairfield	774 G780	CR&C
Fairfield	G780	CB&Q Weather Bur.
Fairmount, B.M. top of monument M.P. 334	918.82	CRI&P
Fairmount, B.M. top of monument M.P. 335	913.05	CRI&P
Fairmount, top of rail center of depot	23.3.G921	CRI&P
Fairmount, top of rail, center of depot	923.88	CRI&P
Fairmount, B.M. top of monument M.P. 337	924.15	CRI&P
Fairmount, B.M. top of monument M.P. 338	926.28	CRI&P
Fairport	557,G567	CRI&P
Fairport, union station with CRI&P	558	CM&StP
Fairport, on foundation of pottery owned by John Feustel,		
in west side near SW. cor. stone foundation, 350 meters		
above railroad station and near river bank; copper bolt,		70.11
marked "U.S.P.B.M." (U.S.C.E.p.b.m. 33)	555.550	Bull. 569
Fairport, 0.25 mile above, 1 meter north of south fence		
of Muscatine-Davenport wagon road, 295 meters east of		
east line of street which is eastern boundary of Fair-		
port; copper bolt in tile surmounted by iron pipe (U.S.		
C.E.b.m. 143/3):	500.20	Dull 560
Cap on pipe	592.38 $596.40$	Bull. 569
Fairport, Island 325, on north side of, opposite a point	050.40	
about 400 meters below foot of Island 326, 25 meters		
from bank of river; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 144/2):		
Copper bolt	545.49	Bull. 569
Cap on pipe	549.44	
Fairport, 3.5 miles above, on property of J. B. Bar, 0.5		
meter west of line between secs. 21 and 22, 150 meters		
from railroad track, on side of hill at edge of timber.		
10.7 meters south of intersection of north-south section		
line, south line of J. C. Fitchner; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 144/3):	200.00	TO 11 #40
Copper bolt	630.89	Bull. 569
Cap on pipe	634.90	
rairport, 1. 11 N., K. 1 E., near NE. cor. sec. 8, 100 feet		
west of crest of hill, 70 feet south of roadway, opposite		
barn, on top of stump in field; copper nail, marked	710 70	Bull. 569
"710.63"	710.70	ъш. 509
Fairport, T. 77 N., R. 1 E., NW. cor. NE. ¼ sec. 8, SE. cor. crossroads, in NW. cor. Patterson schoolhouse lot;		
iron post stamped "Prim. Trav. Sta. No. 2 Iowa 1910,		
728''	728.044	Bull. 569
728'' Fairport, T. 77 N., R. 1 E., NW. cor. sec. 8, 150 feet east	120.011	244. 000
of crossroads, near middle of south side of bridge, in		
floor; copper nail, marked "654.50"	654.58	Bull. 569
Fairport, T. 77 N., R. 1 E., NW. cor. sec. 7, SE. cor. T	•	
road east, east end of wooden drainpipe; copper nail.		•
marked ''715.36'' Fairport, T. 77 N., meridian line SE. 1/4 sec. 1, R. 1 W.,	715.45	Bull. 569
Fairport, T. 77 N., meridian line SE. 1/4 sec. 1, R. 1 W.,		70.11 500
middle of east line; T road west, marked "724.9"	<b>7</b> 25	Bull. 569
Fairport, T. 77 N., R. 1 W., near SW. cor. sec. 1, north		

	ELEVATION	
STATION	FEET	AUTHORITY
side of road, on east side of Pine creek, 20 feet NE. of NE. cor. bridge over Pine creek, 15 feet NW. of 6-inch	\$1	
boxelder, 10 feet east of 4-foot boxelder, 13 feet east of 6-inch boxelder; iron post stamped "623".  Fairport, T. 77 N., R. 1 W., near west line of sec. 28, NE. cor. road forks, northeast from river road, 1.5 feet west	622.864	Bull. 569
of fence, 20 feet north of fence; iron post stamped	559.054	Bull. 569
Fairport, T. 77 N., R. 1 W., NW. ¼ sec. 29, near middle of south line, at road forks, SE. cor. bridge on river road; top of plank backing for steel abutment marked	FF0 00	D-11 500
(1558.70),	558.90	Bull. 569
Fairview, S. Dakota	1220	CM&StP
Farley	1061,61064	CGW
Farley		IC
Farley, junction CM&StP	1107	IC
Farley	1113	CM&StP
Farley, crossing IC	G1115	CM&StP
Wood St. where street energies IC PP. inch most		
Wood St., where street crosses IC RR; iron post	1 100 140	D.,11 560
stamped "1117" Farley, T. 88 N., R. 1 W., middle north line of sec. 6, at	1,108.148	Bull. 569
road junction; iron post stamped "1139"	1 120 066	D11 F60
Forling	1,130.066	Bull. 569
FarlinFarmersburg	1072	$\begin{array}{c} { m CM\&StP} \\ { m CM\&StP} \end{array}$
Farmersburg, crossing south of CM&StP Ry station; top	301,0303	CMastr
of rail	905.4	Bull. 569
Farmersburg, T. 94 N., R. 5 W., SW. cor. sec. 15, SW. cor.	300.4	ъші, 509
schoolhouse vard: iron nost stamped (11077 DRO)	1,078.516	Bull. 569
schoolhouse yard; iron post stamped "1077 DBQ" Farmington	571 G567	CB&Q
Farmington, B.M. top of monument M.P. 29	562.76	CRI&P
Farmington, B.M. top of monument M.P. 30 (U.S.C.E. b.m. 15)	570.17	CRI&P
Farmington, top of rail, center of depot	566.5	CRI&P
Farmington, 1 mile NW. of, B.M. top of monument M.P.	300.3	CIVIAL
21 /II C C F h m 16)	561.27	CRI&P
Farmington, 3 miles NW. of, B.M. top of monument M.P.  32 (unadjusted)  Farmington, 3 miles NW. of, B.M. top of monument M.P.  33 (U.S.C.E.b.m. 17)	553.67	CRI&P
33 (U.S.C.E.b.m. 17)	E74 22 8	CDT&D
Farnam		CRI&P
Farnhamville	1142	CRI&P C&NW
Farragut		CB&Q
Farson	700 G801	CM&StP
Faulkner	1113 (31105	M&StL
Fayette	1002	CM&StP
Fenton		C&NW
Ferguson	911 G908	CM&StP
Fernald	1037	CRI&P
Fifield	724	WRR
Fifield, T. 76 N., R. 19 W., SE. cor. sec. 2, west and 85 feet north of center of crossroads, 18 feet west of center of roadway, 30 feet east of bank of small creek; iron post stamped "749 Iowa"	121	** 1010
iron nost stamped (1740 Town!)	747.844	D <sub>2</sub> 11 E60
Fifield, above; top of west side of north shore pier of high-	147.044	Bull. 569
way bridge (U.S.C.E.b.m. 65) (Pier pushed 1 foot down		
stream by ice and lowered)	725.03	Bull. 569
Fillmore	831 G830	CM&StP
Fillmore, T. 87 N., R. 1 W., at quarter-section line of sec.	551,4650	OMINOUR
25, Whitewater Tp., road crossing CM&StP Ry, near		

# FINDLEY\_FOREST CITY

	ELEVATION	
STATION	FEET	AUTHORITY
north end of second tie from east cattle guard; iron		
post stamped "889"	879.594	Bull. 569
Findley, M.P. 494Findley, crossing over C&NW	1023,61020	IC IC
Finley Landing, on line of CM&StP Ry, 649 feet below	1023	10
milepost 101-60, 180 feet above bridge 162, on right of		
way, 2 feet from south fence and 38 feet from center of		
track; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.p.b.m. 260 and 261): Copper bolt	618.870	Bull. 569
Cap on pipe	622.873	Dun. 005
Flagler	746,G746	$^{\mathrm{CB\&Q}}$
Flagler, crossing CRI&P	726.5	$^{ m CB\&Q}$
Flagler, T. 76 N., R. 19 W., 0.25 mile north of SE. cor. sec. 27, in pasture of P. Augustine, 290 feet north of T road,		
near fence west of road, in fork of boxelder tree; 40-		
penny nail	797.028	Bull. 569
penny nail Flagler, T. 75 N., R. 19 W., center of sec. 15, north and 55		
feet east of center of crossroads, 2 feet south of fence; iron post stamped "854 Iowa".	050 005	TO11 # ##
Flagler, T. 75 N., R. 19 W., 0.5 mile north of SE. cor. sec.	852.285	Bull. 569
27, south and 55 feet west of center of crossroads, 3		
feet north of fence; iron post stamped "888 Iowa"	886.459	Bull. 569
Flagler, T. 75 N., R. 19 W., SE. cor. sec. 27, at center of	000.00	D 11 700
crossroads; section corner stone	$909.96 \\ 727.4$	Bull. 569 CB&Q
Flagler, bed of English creek at RR bridge, 1 mile east of	704	IaGS
Flanders		CM&StP
Flint		CRI&P
Florence		CGW CRI&P
FlorisFloyd	705,G706 1104 G1099	IC
Floyd crossing		CM&StP
Flugstad	1116	FtDDM&S
Flynns	870,G865	· CM&StP
Foley Switch		CB&Q CRI&P
Folsom	974.5	CB&Q
Folsom, T. 73 N., R. 44 W., 0.25 mile east by 430 feet		•
south of NW. cor. sec. 12, on east side of old stage		
road, 300 feet north of house of J. C. Cole; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 119/2):		
Copper bolt	961.34	Bull 569
Cap on pipe	965.40	
Fonda	1231,G1234	· CM&StP
Fonda, crossing IC		CM&StP
Fonda	$\begin{array}{cc}  & 1230 \\  & 1230 \end{array}$	IC IC
Fontanelle	1334.84	CB&Q
Fontanelle (old station)		CB&Q
Fontanelle, E. line SE. 4 sec. 18, T. 75 N., R. 32 W		IaGS
Ford		$^{ m ISU}_{ m CB\&Q}$
Ford, 0.75 mile NE. of, in top of SE. pier of south span of	,00,0100	CLWQ
highway bridge over Des Moines river; aluminum tablet		
stamped "Prim. Trav. Sta. No. 1, 763 Adj" (see also	761 605	D.:11 500
Runnels)	761.635 1265 G1251	Bull. 569 CRI&P
Forest City, crossing M&StL	1249	CRI&P
Forest City	1221,G1220	M&StL
Forest City	G1226	Weather Bur.

	ELEVATION	
STATION	FEET	AUTHORITY
Forest City, Pilot Knob  Fort Atkinson Fort Atkinson, sec. 7, T. 96 N., R. 9 W., west side of	1450	IaGS
Fort Atkinson and 7 T 06 N R 0 W west side of	1016,61021	CM&StP
town, in NW. cor. church yard; iron post stamped "1019		
DBQ''	1,019.721	Bull 569
Fort Dodge11	l11.1.G1115	CGW
Fort Dodge, crossing FtDDM&S	1108.8	CGW
Fort Dodge, crossing over IC, CGW track	G1101	CGW
Fort Dodge, CGW crossing, IC track	G1061 1025	CGW IC
Fort Dodge, M&StL Jct.	1008	IC
Fort Dodge, crossing over M&StL	1016	ĨČ
Fort Dodge, crossing over FtDDM&S	1100	IC
Fort Dodge, crossing under CGW	1059	IC
Fort Dodge, crossing under CGW	1009,G1011	M&StL
Fort Dodge, crossing under IC, IC track	1017,61017	$f M\&StL \ M\&StL$
Fort Dodge	1111	FtDDM&S
Fort Dodge, East	1107	FtDDM&S
Fort Dodge, East		
of sec. 3, at right angle in road, second class road lead-		
ing north, 50 feet SE. of road fork, in fence corner, in root of 12-inch maple tree, marked "1,128.8"; copper		
nail and washer	1,128.70	USGS
Fort Dodge, T. 88 N., R. 29 W., 0.25 mile west of quarter	1,120.10	OBGB
Fort Dodge, T. 88 N., R. 29 W., 0.25 mile west of quarter cor., east side of sec. 3, at T road north, 75 feet NW.		
of road fork, 25 feet north of fence corner, 1.5 feet		
east of fence line; iron post stamped "Towa 1919 1,125" (said to have been moved)		****
Fort Dodge T 88 N R 20 W 0.25 mile west of NE cor	1,125.423	USGS
Fort Dodge, T. 88 N., R. 29 W., 0.25 mile west of NE. cor. sec. 3, at T road south, 250 feet west of T road north,		
40 feet SE, road fork, in base of corner fence post.		
marked ''1,123.1''; spike	1,123.03	USGS
Fort Dodge, T. 89 N., R. 29 W., near NE. cor. sec. 36,		
CGW RR crossing range line, 75 feet SW. railway crossing in bess of telephone rele marked (11.184.12), anily	1 104 00	maga
ing, in base of telephone pole, marked "1,124.1"; spike Fort Dodge, T. 89 N., Rs. 28 and 29 W., cor. secs. 31, 36,	1,124.03	USGS
25 and 30, 50 feet SW. of center of crossroads at fence		
corner, in base of telephone pole marked "1.112"; spike	1,111.94	USGS
Fort Dodge, top of south rail of CGW RR, marked		
fort Dodge, 1.5 miles SW. of, CGW RR bridge over Des	1,125.7	USGS
Moines river, at western end of bridge and south side		
of track, about 1.5 feet lower than the track; point in		
of track, about 1.5 feet lower than the track; point in concrete abutment marked "1,197.1"	1,096.99	USGS
Fort Dodge, T. 89 N., R. 29 W., near center of sec. 26, 450 feet SW. of top of slope leading down to Lizard creek,	·	
feet SW. of top of slope leading down to Lizard creek,		
at bend in road to west, just inside of fence on south side of road, in root of 2.5 foot maple tree, marked		
"1,113.1"; copper nail and washer	1,113.04	USGS
Fort Dodge, T. 89 N., R. 29 W., quarter corner, S. side of	1,110.01	CDGD
sec. 3. 60 ft. NE of center of crossroads in root of		
large maple tree, marked "1,126.1"; copper nail and		
washerFort Dodge, Tps. 89 and 90 N., R. 29 W., quarter corner,	1,125.98	USGS
S. side of sec. 34, at T road W., 35 ft. NW. of road		
fork, in fence corner, in root of large willow tree.		
marked "1,124.4"; copper nail and washer	1,124.24	USGS
Fort Dodge, Tps. 89 and 90 N., R. 28 W., cor. secs. 4, 5, 32 and 33, T road N., 35 ft. S. of road fork, in concrete		
and so, I road N., so It. S. of road fork, in concrete		

# FORT DODGE

Contract	ELEVATION	A TYMTTODYMT
STATION base of corner fence post, marked "1,131.1"; chiseled	FEET	AUTHORITY
mark	1,130.99	USGS
Fort Dodge, Tps. 89 and 90 N., R. 28 W., quarter corner, S. side of sec. 32, 40 ft. NW. of crossroads, in root of 5-		
inch catalpa tree, marked "1,146.2"; copper nail and		
washer	<b>1,146.</b> 08	USGS
Fort Dodge, T. 90 N., R. 28 W., quarter corner, N. side of sec. 32, T road W., 38 ft. SW. of road fork; iron		
post stamped "IOWA 1919 1,121"	1,121.258	USGS
Fort Dodge, intersection of 5th Ave. S. and interurban railway, top of west rail, marked "1,110.5"	1,110.6	USGS
Fort Dodge, 15th St. crossing of CGW RR; top of south	1,110.0	abab
rail, marked '1,098.7'	1,098.6	USGS
Fort Dodge, 15th St. and 5th Ave. S., crossing, 25 ft. NE. of center of street crossing, 2 ft. SW. of telephone pole;		
chiseled square, in concrete curbing, marked "1,107.4"	1,107.30	USGS
Fort Dodge, 5th St. and 1st Ave. N., crossing, 50 ft. NE. of center of street crossing, on edge of sidewalk; cop-		
per nail and washer, in root of 18-inch maple tree	1,122.13	USGS
Fort Dodge, P. O., rear end, NW. corner, 20 inches above sidewalk and 12 inches from north edge of building;		
bronze tablet stamped "IOWA 1,099"	1,098.500	USGS
Fort Dodge, 2nd Ave N. and CGW RR crossing, 50 ft. E.		
of railway and 15 ft. south of highway; chiseled point on top of large terra cotta pipe marked "1,108.9"	1,108.80	USGS
Fort Dodge, 10th Ave. N. and CGW RR crossing, 25 ft.	,	3.3 3
SE. of crossing, in base of telephone pole, spike, marked "1,109.1"	1,109.07	USGS
Fort Dodge, at CGW RR crossing, 10th Ave. N., top of		CDGD
east rail	1,112.5	USGS
Fort Dodge, T. 89 N., R. 28 W., cor. secs. 15, 16, 21 and 22, at T road N., 40 ft. S. of center of road fork, 3 ft.		
N. of fence line and 2 ft. N. of telephone pole; iron		
post stamped "IOWA 1919 1,109"Fort Dodge, T. 89 N., R. 28 W., cor. secs. 14, 15, 22 and	1,108.794	USGS
23, 145 ft. E. of section corner and 60 ft. S. of front of		
dwelling, on N. side of road, in base of telephone pole;	1 115 40	TIGGG
spike, marked ''1,115.6''	1,115.49	USGS
24, 300 ft. W. of second class road to north, on N. side		
of road, in base of telephone pole; spike, marked	1,109.14	USGS
Fort Dodge, T. 89 N., Rs. 27 and 28 W., cor. secs. 13, 18,		0.54.5
19 and 24, 50 ft. SE. of center of crossroads; iron post stamped "Prim. Trav. Sta. No. 5 1919 IOWA 1,113"	1,112.589	USGS
Fort Dodge, T. 89 N., R. 27 W., cor. secs. 17, 18, 19 and		abab
20, 50 ft. NW. of center of crossroads, in fence corner;		
copper nail and washer in root of large willow tree, marked "1,117.8"	1.117.66	USGS
Fort Dodge, T. 89 N., R. 27 W., 1/16 corner, N. side of		
NE. quarter cor. sec. 20, at second class road crossing, 40 ft. NW. of center of crossroads, in concrete base of	•	
corner fence post, marked "1,113.9"; chiseled square	1,113.77	USGS
Fort Dodge, T. 89 N., R. 27 W., quarter corner, N. side of sec. 21, at T road S., 75 ft. SW. of road fork, 4 ft. N. of		,
fence line, 3 ft. W. of telephone pole: iron post stamped		
"TOWA 1919 1,120"	1,119.661	USGS
sec. 15, at T road N., 25 ft. NW. of center of road fork;		
chiseled square, in concrete base of fence post, marked		****
"1,110.9"	1,110.82	USGS

	ELEVATION	
STATION Fort Dodge, T. 89 N., Rs. 27 and 28 W., cor. secs. 19, 24, 25 and 30, 30 ft. SE. of center of crossroads, in con-	FEET	AUTHORITY
crete base of corner fence post, marked "1,110.6"; chiseled square	1,110.50	USGS
Fort Dodge, T. 89 N., Rs. 28 and 29 W., cor. secs. 24, 25, 19 and 30, T road S., 75 ft. SW. of road fork, on fence line, in base of telephone pole, marked "1,118"; spike Fort Dodge, T. 89 N., R. 29 W., cor. secs. 23, 24, 25 and	1,117.97	USGS
26, at right angle of road, in front of Oakdale dairy farm, 40 ft. N. of second class road fork, 6 ft. E. of fence corner; iron post stamped "IOWA 1919 1,120". Fort Madison, Ottumwa line	1,120.222 522	USGS CB&Q
Fort Madison, Keokuk line	520,G523	CB&Q
Fort Madison, Mississippi river, low waterFort Madison, Mississippi river, high water	$\begin{array}{c} G502 \\ G518 \end{array}$	Miss. R. Com. Miss. R. Com.
Fort Madison		Weather Bur.
Fort Madison, base of rail opposite east end depot		AT&SF
Fort Madison, in middle of west side of brick chimney of		
woodenware factory on NE. cor. Front St. and Broadway, 3 feet above base of chimney in building owned by		
W. H. Cretzinger; copper bolt, marked "U.S.P.B.M."		
(U.S.C.E.p.b.m. 8)	539.671	Bull. 569
Fort Madison, 4 miles above, on brick house of James		
Gibbs, in top foundation stone on south side, 3 feet		
from SE. corner, house stands about 150 meters west of		
CB&Q RR track; copper bolt, marked "U.S.P.B.M." (U.S.C.E.p.b.m. 9)	545,996	Bull. 569
Fort Madison, 9 miles north of, on east abutment of CB&Q	040,000	Duii. 505
RR bridge over Skunk river, in north end of abutment;		
copper bolt, marked "U.S.P.B.M." (U.S.C.E.p.b.m. 10)	548.076	Bull. 569
Fort Madison, 450 meters below station at, in top of north		
corner of stone pier of railroad water tank, on second		
pier NW. of spout to tank; top of stone (U.S.C.E.	522.54	Bull, 569
b.m. 4 R.B.)	022.0±	ъш. 003
St. near AT&SF station, near center of building on		
south side; copper bolt marked "U.S.P.B.M." (U.S.		
C.E.p.b.m. 7)	534.513	Bull. 569
Fort Madison, lower part of, on hillside, 12 meters SE.		
center of public road, 80 meters from river bank, at point where bluffs turn back from river; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 117/1):		
Copper bolt	575.56	Bull. 569
Cap on pipe	579.56	
Fort Madison, Niota Island, on sandy ridge which extends	•	
along west bank of, 69 meters 68° to north corner of little frame house, 25 meters north of water's edge;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.b.		
m. 117/2):	•	
Copper bolt	513.29	Bull. 569
Cap on pipe	517.31	
Fort Madison, in vacant lot belonging to Mr. Wilson, in		
SW. quarter of block inclosed by Spruce St. on west	,	
Division St. on south, Locust St. on east, and Des Moines St. on north, 1.5 meters from line of lot west belong	•	
ing to J. C. Atlee, 46.5 meters east of Spruce St., 11		
meters south of alley running east and west through block; copper bolt in tile surmounted by iron pipe (U	ι	
block; copper bolt in tile surmounted by iron pipe (U	•	
S.C.E.b.m. 117/3):	E04.05	TD. 11 #40
Copper bolt		Bull. 569
Oat of b.bo	- 920.00	

STATION	ELEVATION FEET	AUTHORITY
Fort Madison Bridge, in south side of second stone pier from Iowa end of; cut in stone (U.S.C.E. zero of gage) Fort Madison, cut in stone on west end of north abutment of Fort Madison Bridge (U.S.C.E. high-water marks 1880, 1888, 1851):	502.53	Bull. 569
1880	518.66 519.26 524.13	Bull. 569
C.E.b.m. 119/3):  Copper bolt  Cap on pipe  Fort Madison, Green Lake, 150 meters south of outlet of, 807 meters back of above-described bench mark, by side of wagon road, in heavy timber, 7.5 meters 320° to 30-inch elm tree, 13.2 meters 58° to 36-inch elm tree, 8 meters 158° to 11-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 119/4):	511.39 515.37	Bull. 569
Copper bolt	512.79 516.80	Bull. 569
of west wing wall north side Mississippi river bridge	535.25	USC&GS and AT&SF
Foster	900,6904	CM&StP
foot underground; iron post stamped "700 Iowa" Fosterdale, reference mark, 25 feet west and 7 feet north of b.m., in root 0.5 foot underground, on south side of	698.73 <b>6</b>	Bull. 569
2.5-foot locust tree; copper nail and washer	700.77	USGS
chiseled square, marked "709.7"  Fosterdale, T. 75 N., R. 17 W., near SE. cor. NE. ¼ NE. ¼ sec. 35, 15 feet west of center of road forks, in root on east side of 3-foot elm tree; copper nail and washer.	709.74	USGS
tree is painted "U.S.B.M. 689.7"	689.30 701.8	USGS USGS
and washer, painted "U.S.B.M. 763.7"	763.33	∪SGS
4 feet north of corner fence post, driven in ground; 0.75 inch gas pipe painted "U.S.B.M. 739.9"	739.55 $701.45$	USGS Bull.569
of sec. 25, T corner, on rock; painted square	729.29	Bull.569
iron post stamped "772 Iowa" (Junction point)	$771.045 \\ 693$	Bull.569 CB <b>&amp;Q</b>

: )

	ELEVATION	A vimve on vimve
STATION	FEET	AUTHORITY
Fosterdale, 0.5 mile south of, in east side of burr-oak tree		
on bank of river, about 200 feet upstream from residence of A. B. Hanny, transferance reil which is also		
dence of A. B. Henry; twentypenny nail, which is also high-water mark of 1903 (U.S.C.E.b.m. 71)	688.62	Bull. 569
Fostoria	1447 G1440	CM&StP
Franklin Lee Co		CB&Q
Franklin Japan Co	762	CRI&P
Franklin, Jasper Co.  Frankville, T. 97 N., R. 6 W., center, 20 feet west of road	102	Olliwi
intersection on north side of at Center schoolhouse.		
intersection on north side of, at Center schoolhouse, Allamakee Co.; iron post stamped "1169 DBQ"	1,168.880	Bull. 569
Frankville T 97 N R 7 W near center of sec. 15 NW.	,	
of road junction, in SE. cor. McKay school yard; iron		
of road junction, in SE. cor. McKay school yard; iron post stamped "1144 DBQ"	1,144.127	Bull. 569
Fraser, bench mark	896.44	FtDDM&S
Fraser, crossing Des Moines river	910	FtDDM&S
Frederic74	7.47,G752	$^{ m CB\&Q}$
Fredericksburg10	76.2,G1076	CGW
Fredonia Freeman	593,G602	CRI&P
Freeman	1157,G1150	M&StL
Freeman 11	46.6,61140	CGW
Freeport, Winneshiek Co., T. 98 N., R. 7 W., 0.4 mile west of southeast cor. sec. 16, 2 rods north of northwest cor.		
of road intersection; iron post stamped "845 DBQ"	844.805	Bull. 569
Fremont	827	CB&Q
Fremont		M&StL
Fremont		
ter corner on north side sec 21 NW of schoolhouse 25		
feet south of fence-corner post; iron post stamped "1060		
feet south of fence-corner post; iron post stamped "1060 DUBQ" (map shows B.M. in sec. 15)	1,060.838	Bull. 569
Frenchtown landing, Dubuque Co., on right of way of CM&StP Ry, at fence, at upper end of small picnic grounds, 25 meters below end of bridge 148K; copper		
CM&StP Ry, at fence, at upper end of small picnic		
grounds, 25 meters below end of bridge 148K; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 184/3		
equals U.S.P.B.M. 263):	<b>610.00</b>	70 11 500
Copper bolt	610.88	Bull. 569
Cap on pipe	614.88	
above milepost 104-57, 80 feet below bridge 148, 60		
feet above platform on side of railroad and at entrance		
to picnic grounds, on east side of coulee. 38 feet south		
from center of track, on right of way, 11/2 feet from		
to picnic grounds, on east side of coulee, 38 feet south from center of track, on right of way, 1½ feet from south limit, under extreme northwest point of table-land		
forming picnic ground; copper bolt in tile surmounted		
forming picnic ground; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 263 and 264):		
Copper bolt	610.878	Bull. 569
Cap on pipe	614.877	
Frenchtown Landing, 0.2 mile above milepost 104-57, 115		
feet below bridge 148, 25 feet above end of platform at		
entrance to picnic grounds, 20 feet south from center of		
track, on flat rock, embedded, marked "UDS"; highest	414 000	70 11 1400
point in square (U.S.C.E.t.b.m. 277)  Frenchtown Landing, in front of Island 207, 919 feet above milepost 102-59, 79 feet above section post 10-11, on west abutment of bridge 156, at its north end, on fourth stone step from top, 3 inches from end face of third step, 9 inches back from east face; copper bolt	614.002	Bull. 569
shows milenest 109.50, 70 feet above section neet 10.11		
on west shutment of heidre 156 at its north and on		
fourth stone step from top 3 inches from end face of		
third step. 9 inches back from east face conner holt		
marked "U.S. P.B.M." (U.S.C.E.p.b.m. 262)	615.622	Bull. 569
F.Loelicu	1017	CM&StP
Fruitland, Muscatine Co.	544,G552	CRI&P
Fruitland, Polk Co.	830.56	DM&CI
Fulton, Jackson Co.,	785	USGS

# FULTON-GARWIN

	ELEVATION	
STATION	FEET	AUTHORITY
Fulton, center Farmers Creek Tp.	700	USGS
Galbraith	1162.0	C&NW
Galland	532	$^{\mathrm{CB\&Q}}$
Galland, in top of coping of west wall near SW. tower of guard lock; top of brass bolt, marked "U.S.P.B.M."		
(U.S.C.E.p.b.m. 2)	507.922	Bull. 569
Galland, on east side of guard lock, just above upper gate	00110==	
of Des Moines Rapids canal; gage cut in stone masonry		
(U.S.C.E. "gage at guard lock")	496.94	Bull. 569
Galland, Des Moines Rapids canal, 580 meters above a		
point on railroad opposite upper gate of guard lock of, 3 meters east of track, 4 meters from south end of		
culvert, at upper end of large gravel bar, nearly opposite		
U. S. light on large stone pier; stone post (U.S.C.E.		
"channel survey b.m."	517.66	Bull. 569
Galland, Des Moines Rapids canal, 1,250 meters above		
point on railroad opposite upper gate of guard lock of,		
250 meters above U.S. light on upper end of long narrow towhead, at top edge of right bank of river, on		
north side of mouth of ravine, 20 meters east of railroad,		
opposite north end of culvert; stone post (U.S.C.E.		
"channel survey b.m.")	518.28	Bull. 569
Galland and Montrose, about halfway between, between		
river bank and public road, directly in front of resi- dence of Charles Hummel, between an old stone culvert		
and west corner of hedge inclosing an orchard on hill-		
side 14 meters from river bank. 8 meters from wagon		
track of public road at point 13 meters south of where		
small ravine crosses road, 27.5 meters from corner of		
hedge and 18.7 meters from 8-inch hickory tree; copper		
bolt in tile surmounted by iron post (U.S.C.E.b.m. 114/2):		
Copper bolt	519.43	Bull. 569
Cap on pipe	523.46	
Galland and Montrose, about halfway between, on little		
hillock between public road and railroad, on section line		
running west from river on south line of Solferino farm, 61 meters from river bank, 56.5 meters from center of		
road, 43.7 meters from center line of railroad, 37 meters		,
from large arched stone culvert on railroad: copper bolt		
in tile surmounted by iron pipe (U.S.C.E.b.m. 114/3):		
Copper bolt		Bull. 569
Cap on pipe	. 527.60	CRI&P
Galva		C&NW
Galva	G1290	Weather Bur.
Garber, formerly Elkport. Garden City	656,G655	CM&StP
Garden City	1196	CRI&P
Garden Grove		CB&Q
GardinerGarfield		$\begin{array}{c} \mathrm{DM\&CI} \\ \mathrm{CB\&Q} \end{array}$
Garland		CRI&P
Garnavillo, SE. ¼ sec. 18, T. 93 N., R. 3 W., SE. cor. park;		
iron post stamped "1065 DBQ"	1.066.760	Bull. 569
Garner Garner, crossing CM&StP	.1216,G1209	CRI&P
GarnerGarner	. 1218,G1209	$rac{ ext{CRI&P}}{ ext{CM\&StP}}$
Garner, crossing CRI&P		CM&StP
Garrison	. 863,G859	CRI&P
Garry Owen, Jackson Co		USGS
Garwin	- 895	C&NW

	ELEVATION	
STATION	FEET	AUTHORITY
Gaza	1508,G1508	$\mathbf{IC}$
Geneva	1100,G1092	M&StL
George	1374,G1377	$\mathbf{IC}$
Georgetown, Dubuque Co., T. 90 N., R. 1 W., north line sec. 17, corner of O. W. Burns's field, iron post stamped		
sec. 17, corner of O. W. Burns's field, iron post stamped	1 150 054	D 11 500
"1159 DBQ"	1,159.854	Bull. 569
Gerled	1152	C&NW
Gerled, crossing CRI&P	$\frac{1153}{1180}$	$\begin{array}{c} \text{C\&NW} \\ \text{CRI\&P} \end{array}$
Gerled, crossing over C&NW	1180	CRI&P
Giard	800	CM&StP
Gibson	886	CRI&P
Gibson, crossing C&NW	882	CRI&P
Gifford	956	M&StL
Gifford, crossing C&NW	956	M&StL
Gifford	951,G953	C&NW
Gifford, crossing M&StL	951	C&NW
Gilbert	994	C&NW
Gilbert, T. 84 N., R. 24 W., 300 feet east of SW. cor. sec. 17, NW. cor. forks at T road north, in SW. foundation		
17, NW. cor. forks at T road north, in SW. foundation		
of small shed at windmill; square cut in top of stone,		
marked ''954.5''	953.48	Bull. 569
Gilbert, 1.5 miles west by 1 mile south of, T. 84 N., R. 24		
W., NW. cor. sec. 17, SE. cor. crossroads, 5 feet south of	004 055	D 11 500
fence corner; iron post stamped "965"	964.255	Bull. 569
Gilbert, 1.5 miles west of, T. 84 N., R. 24 W., cor. secs. 5, 6,		
7, and 8, center of crossroads; chiseled square cut on top of stone, marked "960.1"	050 19	Bull. 569
Gilbert, 1.5 miles west by 1 mile north of, T. 85 N., R. 24	959.12	ъцц. 508
W., SW. cor. sec. 32, on east-west township line between		
La Fayette and Franklin townships, NE. cor. of cross-		
roads; copper nail in base of telephone pole, marked		
(1993.2)	992.15	Bull. 569
Gilbert, 1.5 miles west by 2 miles north of, T. 85 N., R. 24		
W., SW. cor. sec. 29. NE. cor. crossroads, SW. cor.		
W., SW. cor. sec. 29, NE. cor. crossroads, SW. cor. schoolhouse yard; iron post stamped "1048"	1,047.281	Bull. 569
Gilbert, 0.5 mile west by 2 miles north of, T. 85 N., R. 24	•	
W., NW. cor. sec. 33, SE. cor. crossroads; chiseled square on top of large stone, marked "1024.2"		
on top of large stone, marked "1024.2"	1,023.23	Bull. 569
Gilbert station, 2 miles north of, on railroad, just south of road crossing, north end of east guardrail of small		
of road crossing, north end of east guardrail of small		
railroad bridge; top of painted bolt-head, marked	7 00 7 00	T 11 500
('1036.2'',	1,035.22	Bull. <b>5</b> 69
Gilbert, 0.5 mile east by 2 miles north of, T. 85 N., R. 24		
W., SW. cor. sec. 27, NE. cor. crossroads; copper nail in		
top of post at east end of drain under road north, marked ''1037.7''	1,036.73	Bull. 569
Gilbert, 1.5 miles east by 2 miles north of, T. 85 N., R. 24	1,030.73	Dan. 505
W. SW. cor sec 26 NE cor crossroads 10 feet north		
W., SW. cor. sec. 26, NE. cor. crossroads, 10 feet north of fence corner; iron post stamped "1013"	1,012.349	Bull. 569
Gilbert, 5.5 miles west of, T. 84 N., R. 25 W., SE. cor. sec.	1,012.010	
4, north side of road opposite T road south, just west		
of section line at foot of telephone pole; iron post		
of section line at foot of telephone pole; iron post stamped "Prim. Trav. Sta. No. 3, 1912, 1034"	1,032.988	Bull. 569
Gilbert, T. 84 N., R. 25 W., NW. cor. sec. 3, 45 feet NE.	,	
of north end bridge over branch of Squaw creek, just		
south of township line between Jackson and Harrison		
townships, east side of road at fence line; copper nail	0.00	<b>35. 33.</b> 2.22
in root on west side of red-oak tree, marked "972.2"	971.19	Bull. 569
Gilbert, T. 85 N., R. 24 W., SW. cor. sec. 20, N.E. cor.		

	ELEVATION	
STATION	FEET	AUTHORITY
crossroads; top of north end of tile drain under road to		
east; painted square, marked "1032.8"	1,031.82	Bull. 569
Gilbertville, road intersection, subgrade	822.09	WCF&N
Gilliat		$\begin{array}{c} { m CM\&StP} \\ { m CGW} \end{array}$
Gilman		M&StL
Gilmore City		M&StL
Givin, B.M. top of monument M.P. 95	687.49	CRI&P
Givin, B.M. top of monument M.P. 96	688.65	CRI&P
Givin, B.M. top of monument M.P. 97	696.66	CRI&P
Givin, top of rail, center depot	$696.9 \\ 707.80$	CRI&P CRI&P
GivinGivin		M&StL
Givin, at NE. cor. Eveland Church; iron post (U.S.C.E.b.m.	100,0001	1140,022
54 equals U. S. Geological Survey primary traverse sta-		
tion mark No. 9)	680.422	Bull. 569
Givin, top of upstream end of second pier from north or	207.007	70 11 700
left bank of Eveland highway bridge (U.S.C.E.b.m. 72)	687.087	Bull. 569
Gladbrook 9 Gladbrook, crossing C&NW 9	49.5,G949 40.7 G040	$\begin{array}{c} \operatorname{CGW} \\ \operatorname{CGW} \end{array}$
Gladbrook	953.G950	C&NW
Gladbrook, crossing CGW		C&NW
Gladstone	835,G827	CM&StP
Gladwin		CM&StP
Gladwin, crossing Iowa river	600,G603	CM&StP
Glendale		CB&Q CRI&P
Glen Ellen		CM&StP
Glen Ellen, crossing C&NW	1089	CM&StP
Glenwood	1031.G1037	CB&Q
Glenwood Junction, Mo.	964.8	$^{\mathrm{CB\&Q}}$
Glidden	1226,G1226	C&NW
Golden	1048,G1053	IC
Golden, middle sec. 31, T. 88 N., R. 5 W., highway crossing 150 feet west of IC RR, north side of road and south of		
station; iron post stamped "1055"	1,046.158	Bull. 569
Goldfield	1115.G1108	CRI&P
Goldfield, crossing C&NW	1120	CRI&P
Goldfield	1133	C&NW
Goldfield, crossing CRI&P	1119	C&NW
Goldfield, 4 miles west of, Tps 91 and 92 N., R. 27 W., at south cor. secs. 1, 2, 35 and 36, 120 feet west by 40		
feet south of junction, on T road north, in northwest		
cor. of small maple grove in root of small maple tree:		
cor. of small maple grove, in root of small maple tree; copper nail and washer "U.S.G.S.B.M."	1,145.28	USGS
Goldfield, T. 92 N., R. 27 W., near cor. secs. 25, 26, 35		
and 36, north side of road, about 50 feet west of drain ditch; iron post stamped "Prim. Trav. Sta. No. 12,		
ditch; iron post stamped "Prim. Trav. Sta. No. 12,		USGS
1919''	1,123.684	avau
and 36, in root of soft maple tree, 50 feet west of school-		
house and 400 feet due west of above iron post, in root		
of soft maple tree (24 inches in diameter); copper nail and washer marked "U.S.G.S.B.M."		
and washer marked "U.S.G.S.B.M."	1,128.02	USGS
Goodell		CRI&P
GoodwinGoose Lake	790 605 (3694	CRI&P C&NW
		CM&StP
Gordons Ferry		Ç
in open ground, 200 meters above head of Harris slough;		

Smanrov	ELEVATION	A TYMYY OD IMNY
STATION copper bolt in tile surmounted by iron pipe (U.S.C.E.	FEET	AUTHORITY
b.m. 176/2): Copper bolt	588.06	Bull. 569
Cap on pipe	592.09	
Gordons Ferry, 0.5 mile above, 0.5 meter west of right of way fence of CM&StP Ry, on bench above railroad track, 10 meters from perpendicular rock bluff and about 150 meters below large bridge 66K across creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 176/3):		
Copper bolt	614.26 618.26	Bull. 569
Gordons Ferry, 1.5 miles below, 0.3 mile below milepost 132-29, on low ridge at upper side of coulee, 49 feet west from center of CM&StP Ry track, on right of way, at west fence; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 296 and 297):	010.20	
Copper bolt	607.203	Bull. 569
Cap on pipe		
m. 318)	611.180	Bull. 569
station, 125 feet above lower headblock of siding, 45 feet below lower side of stockyard, 34 feet from center of main track on bluff side; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 294 and 295):		
Copper bolt	614.320 618.303	Bull. 569
Gordons Ferry, 0.5 mile above, 1,876 feet below bridge 66, 1,213 feet above water tank, midway between two projecting points of bluff 12 feet west from center of track, 1½ feet above grade on natural ledge of rock, marked "US"; highest point in square (U.S.C.E.t.b.		
m. 315)	612.082	Bull. 569
Creek, 215 feet below bridge 68, on which t.b.m. 314 is located, 75 feet below old stone building, 27 feet west of center of CM&StP Ry track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 292 and 293):		
Cap on pipe	$600.707 \\ 604.710$	Bull. 569
Gordons Ferry, 1 mile above, on line of CM&StP Ry, 52 feet below sign "Gordon's Ferry one mile," on south abutment, river end of bridge 68K, just above ruins of large stone house, on fourth course of stone from top, on center of north end of inner stone, marked "UDS";		
highest point in square (U.S.C.E.t.b.m. 314)	599.185	Bull. 569
surmounted by iron pipe (U.S.C.E.p.b.m. 290 and 291): Copper bolt Cap on pipe Gordons Ferry, Snyder's wood yard, opposite head of Island 235, 1,270 feet above milepost 128-33, 410 feet below bridge 72K, 12 feet west of center of track, on lower	604.415 608.417	Bull. 569
end of very large inclined rock at rocky point, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 312)	611.489	Bull. 569

	ELEVATION	
STATION	FEDT	AUTHORITY
Goshen	1182,G1180	CB&Q
Gowrie		FtDDM&S
Gowrie		C&NW
Gowrie, crossing FtDDM&S and CRI&P	1135	C&NW M&StL
Gowrie, T. 86 N., R. 29 W., cor. secs. 7, 8, 17 and 18, 50	1142,01100	Massur
feet NW. of center of crossroads at fence corner; iron		
nost stamped "Towa 1919 1.146"	1,146.277	USGS
Gowrie, 2 miles east of, railway crossing; top of south rail, marked ''1,148.8''.  Gowrie, T. 86 N., R. 29 W., cor. sec. 5, 6, 7 and 8, 50 feet		
rail, marked "1,148.8"	1,148.9	USGS
N.E. of context of erosproads in base of sign post morked		
N.E. of center of crossroads, in base of sign post marked "1,151"; spike	1,151.01	USGS
Gowrie, Tps. 86 and 87 N., on line between, R. 29 W., cor.	2,202.02	0000
secs. 5, 6, 31 and 32, T road west, 60 feet east of road		
fork, on east side of north and south road, in base of		
telephone pole, marked "1,148.4"; spike	1,148.45	USGS
Gowrie, T. 87 N., R. 29 W., cor. secs. 29, 30, 31 and 32, 25 feet SW. of center of crossroads, 20 feet south of fence		
corner and 2 feet east of fence line; iron post stamped		
"IOWA 1919, 1,157"	1,157.219	USGS
Grable	L002,G999	IC
Graettinger	1252	CRI&P
Graf		CGW
Grand Junction, union station with M&StL	1225 1039 G1041	CM&StP C&NW
Grand Junction, union station with C&NW	1040	M&StL
Grand Mound	720,G721	C&NW
Grand River	982.5	CB&Q
Granger	888.95	DM&CI
Granger, crossing CM&StP	877.85	DM&CI CM&StP
Granger, T. 80 N., R. 26 W., NE. cor. NE. ¼ sec. 16, in	009,0001	CMAST
corner of lot at SW. cor. crossroads; iron post stamped		
"970"	968.443	Bull. 569
Granger, T. 80 N., R. 26 W., 200 feet east of SW. cor. sec.		
4; spike head in NE. cor. wooden bridge over small	017.50	D11 500
Granger, 1.5 miles north by 1.5 miles east of, at T road in	917.50	Bull. 569
front of schoolhouse, east center SE. ¼ sec. 31, Madison		
township; iron post stamped "974"	972.673	Bull. 569
Granger, 2 miles north of, at T road, center of sec. 36,		
Des Moines township; spike in base of fence post	982.99	Bull. 569
Granger, 1.5 miles north of, at T road; spike in base of	050.40	D-11 560
Granger, 1.5 miles north by 1 mile west of, at road cross-	952.48	Bull. 569
ing; spike in base of telephone pole	902.89	Bull. 569
Granger, 1.5 miles north by 2 miles west of, at Nixon,		001
Electric RR station; spike in base of trestle post at		
overhead crossing	877.05	Bull. <b>5</b> 69
Granger, 1.5 miles north by 2.5 miles west of, at T road; copper nail in SW. cor. bridge floor over Beaver creek	868.79	Bull. 569
Granite	1313	CRI&P
Granite, T. 99 N., R. 48 W., NW, cor. sec. 6: iron post	2010	OLVLOOL
stamped "Ynktn 1420"	1,419.700	Bull. 569
Granite, T. 100 N., R. 48 W., NW. cor. sec. 19: iron post		D 33 =44
stamped "Ynktn 1343"Granite, 1 mile south of	1,343.277	Bull. 569
Grant Center	1440 1067 G1070	IaGS CM&StP
Granville	1447,G1445	C&NW
Graveldale	999	CM&StP

	ELEVATION	
STATION	FEET	AUTHORITY
Gravity	1151,G1149	CB&Q
Grav	1352,G1350	C&NW
Grayson	1149,G1145	CM&StP
Greasers Siding	851	CRI&P
Great Western Crossing	<b>1</b> 093 1139	$^{ m CB\&Q}_{ m CM\&StP}$
Greeley, ½ mile north of, sec. 20, T. 90 N., R. 4 W., at road	1199	CMCStr
corner; iron post stamped "1142 DBQ"	<b>1</b> ,143.753	Bull. <b>5</b> 69
Greendale, stock yard	996	CM&StP
Greene	961.G955	CRI&P
Greenfield137		CB&Q
Greenfield	1368	IaGS
Greenfield, SE. 1/4 sec. 19, T. 76 N., R. 31 W	1360	IaGS
Greenfield, SE. 1/4 sec. 14, T. 75 N., R. 32 W	1278	IaGS
Greenfield, W. line NW. 1/4 sec. 13, T. 75 N., R. 32 W	1388	IaGS
Greenfield, NW. cor. sec. 13, T. 75 N., R. 32 W	1298	$egin{array}{c} { m IaGS} \\ { m CM\&StP} \end{array}$
Green Island	600,6601	Chrastr
fence on north side of wagon road on line of division		
fence of Warner and A. O. Hunt, on sand prairie,		
1,356.8 meters back of following-described bench mark;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 170/1):		
Copper bolt	631.60	Bull. 569
Cap on pipe	635.63	
Green Island, 1.25 miles below mouth of Maquoketa river,		
30 meters from river bank, in thick timber 0.25 mile		
above Island 256, on south bank of small slough leading back from river; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 170/3):		
Copper bolt	584.82	Bull. 569
Cap on pipe	588.80	
Green Island, 0.8 mile above Island 256, 20 meters from		
west bank of small dry slough, in open bottom land, 746		
meters from river bank, in open pocket in timber ex-		
tending to bluffs on west, 60 meters west of edge of		
timber; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.b.m. 170/4): Copper bolt	585.33	Bull. 569
Cap on pipe		Duii. 509
Green Island, in front of CM&StP Ry station; base of rail		Bull. 569
Green Mountain		CGW
Greenville		M&StL
Greenville, crossing CRI&P	1348	${ m M\&StL}$
Gridley	1274	C&NW
Gridley, crossing CRI&P	1275	C&NW
Grimes	. 964,G967	CM&StP
Grimes, T. 80 N., R. 25 W., NW. cor. NW. ¼ sec. 34, in		
field opposite junction of T roads; iron post stamped	883.280	Bull. 569
Grimes, T. 79 N., R. 25 W., 150 yards west of SE. cor.	000.200	Duii. 303
sec. 4, in brick foundation on west side of schoolhouse;		
aluminum tablet stamped ''976''	974.226	Bull. 569
Grimes Road station	841.09	DM&CI
Grinnell, union station with M&StL		CRI&P
Grinnell, crossing M&StL.		CRI&P
Grinnell		M&StL
Grinnell, crossing CRI&P	.1016,G1011 . G1023	M&StL
Grinnell and Montezuma Junction	. G1023	Weather Bur. M&StL
Griswold		CB&Q
		O L W W

	ELEVATION	
Station	FEET	AUTHORITY
Griswold	1100	CRI&P
Griswold, bed of river west of	1076	IaGS
Groveland	1162	CB&Q
Grundy Center		CRI&P
Grundy Center	G976	Weather Bur. CRI&P
Guernsey	810	C&NW
Guinn	894	CB&Q
Guthrie Center	L070,G107 <b>7</b>	CRI&P
Guthrie Center	G1077	Weather Bur.
Guttenberg	622,G620	CM&StP
Guttenberg, NE. cor. Herder and First Sts., T. 92 N., R. 2 W.; aluminum tablet stamped ''630 DBQ''	631.603	Bull. 569
Guttenberg, T. 93 N., R. 2 W., near north line of sec. 31,	031.003	Dun. 509
in school grounds; iron post stamped "681 DBQ"	682.054	Bull. 569
Guttenberg, T. 92 N., R. 3 W., SW. 1/4 sec. 9, in school-		
house grounds; iron post stamped "959 DBQ"	960.200	Bull. 569
Guttenberg, 3 miles below, on right bank on right of way		
of CM&StP Ry, 1 meter from fence, 5 meters west of small ravine, 10 meters above bridge 238; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 190/4):		
Copper bolt	635.30	Bull. 569
Cap on pipe	639.20	
Guttenberg, in front of CM&StP Ry station; base of rail	_	
(U.S.C.E.b.m.)	620.61	Bull. 569
Guttenberg, at upper end of, on island in front of Swift slough, 20 meters from left bank of Guttenberg chan-		
nel, 400 meters from head of island; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 191/3):		
Copper bolt	609.03	Bull. 569
Cap on pipe	612.98	
Guttenberg, on property of John Hirschbueller, corner of		
Second St. and Washington Ave., at his north line, 10 meters east of east line of Second St.; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 191/4):		
Copper bolt	621.54	Bull. 569
Cap on pipe	625.49	
Guttenberg, 400 meters above head of McMillan Island, on		
right bank, 15 meters back from river bank, 100 meters		
below bench mark the bank is very steep; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 192/3):		
Copper bolt	609.59	Bull. 569
Cap on pipe	613.53	
Guttenberg, 3 miles below, 3.2 miles above point of bluff	-	
at railroad on north side of Turkey river, on bridge 236,		
north abutment, east end, I foot west from end of abut-		
ment and 6 inches north of its south face, marked "US"; highest point in square (U.S.C.E.t.b.m. 253)	622.220	Bull. 569
Guttenberg, 2.2 miles below, 63 feet below t.b.m. 252, on	022.520	Buil. 000
opposite side of track, 1.5 feet east of west right-of-way		
fence and 18 feet from center, 0.5 mile below where		
track comes to bluff, 150 feet above bridge 258, at place		
where wagon road turns up into coulee and 24½ feet east of center of road; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.p.b.m. 249 and 250):		
Copper bolt	616.842	Bull. 569
Cap on pipe	620.839	
Guttenberg, 2.2 miles below station, on line of CM&StP Ry,		
213 feet above bridge 258, at lower end of cut, 17 feet east of center of track, on an embedded bowlder, marked		
"US"; highest point in square (U.S.C.E.t.b.m. 252)	622.988	Bull, 569
оп. , 8 ос. ко от одимо ( отого: для вод)	022.000	Duii. 000

Course	ELEVATION FEET	AUTHORITY
STATION Guttenberg, on CM&StP Ry, 2,254 feet below station, on	FEET	AUIHOMIII
upper abutment of bridge 274, on river side of track, on		
fourth course of stone from top, marked "U□S"; highest point in square (U.S.C.E.t.b.m. 50)	616.301	Bull, 569
Guttenberg, on west side of Front St., 72.7 feet above NW.	<b>0</b> -01-1-	
cor. Front and Goethe Sts., in Clayton County Bank building, 8.5 feet upstream from south side of entrance		
way and 3.7 feet above bottom step, marked "U.S.O		
P.B.M.''; copper bolt (U.S.C.E.p.b.m. 248)	638.200	Bull. 569
Guttenberg, on NE. cor. Herder and First Sts., on front of Joseph Huene's general store, in doorstep, 5.8 feet from		
SW. cor. of building, 4.5 inches from angle of casing,		
and 3½ inches back from face of stone; copper bolt, marked "U.S.⊙P.B.M." (U.S.C.E.p.b.m. 247)	631.593	Bull, 569
Guttenberg, 2.3 miles above, on line of CM&StP Ry, mid-		
way between bridges 284 and 286, 2,001 feet below mile- post 80, at light cut, 28.5 feet east of center of track		
and 2 feet west of right-of-way fence, 30 feet west of		
blazed 14-inch hickory tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 245 and 246):		
Copper bolt	617.535	Bull. 569
Cap on pipe	621.528	THE TOTAL S. C.
Gypsum, crossing IC, union station	$1108 \\ 1116.8$	${ m FtDDM\&S} \ { m CGW}$
Gypsum	1118	IC
Gypsum, crossing CGW	1118	IC
and 31, 40 ft. NW. of road fork at fence corner, in		
base of telephone pole, marked "1,109"; spike	1,108.93	USGS
2, 3, 31 and 36, at railway crossing, 50 ft. NW. of rail-		
way crossing on W. side of highway, in line with railway		
right-of-way fence; iron post stamped "Iowa 1919	1,109.400	USGS
Gypsum, T. 88 N., R. 28 W., quarter corner, west side of		
sec. 2, at right angle in road, on NW. corner of road, in base of corner fence post, marked "1,111.5"; spike	1,111.36	USGS
Hadden Hill	.1014,G1014	CM&StP
HagertyHagerty, T. 72 N., R. 17 W., at north sixteenth corner be-		$^{\mathrm{CB\&Q}}$
tween secs. 5 and 6, in NE. angle of crossroads, 5 feet		
west by 3 feet north of corner fence post, in concrete		
post; bronze tablet stamped "E.B. No. 5 1924 Iowa" painted "U.S.P.B.M. 956.3"	956.234	USGS
Hagerty, reference mark, 100 feet north by 100 feet west	;	
of tablet, in top at west end of concrete tube culvers under CB&Q RR; chiseled square		USGS
Hagerty, T. 73 N., Rs. 17 and 18 W., at quarter corner be-		
tween secs. 31 and 36, 150 feet NW. of crossroads in top of center of concrete headwall at east end of bridge	l •	
under road; chiseled square, painted "U.S.B.M. 947.4"	947.25	USGS
Hagerty, T. 73 N., R. 18 W., near east sixteenth corner be tween secs. 25 and 36, in NE, angle of crossroads, 5 feet		
north of corner fence post, on fence line; top of 0.75		
inch gas pipe driven in ground, painted "U.S.B.M"		TTCCO
958.2', Hagerty, T. 73 N., R. 18 W., near center of sec. 25, in NW	. 958.09	USGS
angle of roads at T road east in root on east side of a 3		
foot black oak tree; railroad spike, painted "U.S.B.M 951.8"		USGS
Halbur		C&NW

	ELEVATION	
STATION	FEET	AUTHORITY
Halbur13	77.1,61384	CGW
Hale	780,0783	CM&StP
Haley, M.P. 462Halfa	1269	IC C&NW
Hamburg	911 (4913	CB&Q
Hamburg 1.5 miles south of station in pedestal block	011,0010	ODWW
Hamburg, 1.5 miles south of station, in pedestal block forming bridge seat at west end of south pier of bridge		
over Nishnabotna river, 0.67 foot south of south edge of		
bedplate under inclined end post, 10 feet west of track		
center; copper bolt in stone (U.S.C.E.p.b.m. 323)	908.328	Bull. 569
Hamburg, 1.998 feet north of station, 43 feet east of rail-		
way; in bench-mark stone; copper bolt in stone sur-		
mounted by iron pipe (U.S.C.E.p.b.m. 324):		
Copper bolt	903.017	Bull. 569
Cap on pipe	907.045	
Hamburg, 3.8 miles north of, in SE. cor. W. H. Frake's		
dooryard, 46 feet SE. of SE. cor. Frake's dwelling, 52		
feet SW. of SW. cor. schoolhouse, 328 feet west of		
track; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 110/2):		
Copper bolt	905.530	Bull. 569
Cap on pipe	909.519	Duii. 505
Hamburg, T. 67 N., R. 43 W., 1,200 feet west of east line	000.010	
of sec. 34, SE. cor. orchard belonging to Oliver Taylor,		
on left bank, on north side of Stateline road between		
on left bank, on north side of Stateline road between Missouri and Iowa; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 109/2):		
Copper bolt	911.36	Bull. 569
Cap on pipe	915.41	
Hamburg, T. 67 N., R. 43 W., 5,180 feet east of east line of		
sec. 34, on south side of State-line road, in SE. angle of		
fence formed by intersection of north-south and east-		
west roads, on premises owned by Joseph Payne; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 109/3):		
Copper bolt	905.27	Bull. 569
Cap on pipe		Dull. 309
Hamill		CB&Q
Hamilton		CB&Q
Hamilton	904	WRR
Hamilton, T. 74 N., R. 17 W., at quarter corner between		
secs. 30 and 31, in NW. angle of crossroads, in top		
center of concrete headwall to culvert under road; chis-		
eled square, painted "U.S.B.M. 845.3"		${f USGS}$
Hamilton, T. 74 N., R. 17 W., center of sec. 30, in NE.		'
angle of crossroads, in top on SW. cor. concrete base to	1	
corner fence post; chiseled square, painted "U.S.B.M.		Taga
872.7''	872.60	USGS
Hamilton, Ill., 350 meters SW. of station, 1 meter north of		
south right-of-way fence of TP&W RR, 18 meters north		
of east of sycamore tree, 25 meters NW. of black oak, 16 meters SW. of black oak, all blazed facing pipe; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
111/1):		
Copper bolt	504.62	Bull. 569
Cap on pipe		
Hamlin	1255,G1257	CRI&P
Hampton	1145	CRI&P
Hampton, crossing CGW	1140	CRI&P
Hampton, crossing M&StL	1135	CRI&P
Hampton	1151,G1143	M&StL

	ELEVATION	
STATION	FEET	AUTHORITY
Hampton, CGW transfer	1146	M&StL
Hampton, Belmond branch	1146	M&StL
Hampton11	L40.0.G1140	CGW
Hampton, crossing M&StL	l41.3,G1142	CGW
Hampton, crossing CRI&P	1145.2	CGW
Hancock	1109.61113	CRI&P
Hanford	1188	C&NW
Hanley	887,G882	ÇGW
Hanley, Clanton creek north of	849	laGS
Hanlontown	1202	C&NW
Hanna	1177,G1179	M&StL
Hansell1	031.4,61031	CGW
Hansell, 4 miles east of, Franklin Co. line	991	CGW
Harcourt, B.M. on concrete foundation N. of station, E. of track	1173.69	FtDDM&S
Harcourt	1169	C&NW
Harcourt, T. 86 N., R. 28 W., cor. secs. 17, 18, 19 and 20,	1109	Cally
50 feet SW. of center of crossroads, 3 feet north of		
fence and 7 feet NE. of fence corner; iron post stamped		
"Iowa 1919, 1,170"	1,170.245	USGS
Harcourt, T. 86 N., R. 28 W., cor. secs. 13, 18, 19 and 24,	-,= : : :	0.00.0
Harcourt, T. 86 N., R. 28 W., cor. secs. 13, 18, 19 and 24, T road east, 35 feet SE. of road fork, in base of corner		
fence post, marked "1,167.4"; spike	1,167.42	USGS
Harcourt, T. 86 N., R. 28 W., quarter corner, west side of	,	
sec. 18, at right angle in road, on north side of, in line		
with east edge of road, in base of telephone pole,		
marked '1,169.4''; spike	1,169.38	USGS
Harcourt, 700 feet south of FtDDM&S Ry station, at		
road crossing; top of east rail, marked "1,172.2"	$1,\!172.2$	USGS
Harcourt, T. 86 N., R. 29 W., quarter corner, east side of		
sec. 14, at T road east, 30 feet NW. of center of T road,		
in base of telephone pole, marked "1,159.7"; spike	1,159.73	USGS
Harcourt, 0.6 mile NW. of, at C&NW railway crossing, top		
of south rail, marked "1,156.4"	1,156.4	USGS
Harcourt, T. 86 N., R. 29 W., cor. secs. 10, 11, 14 and 15,		
railroad crossing at, 60 feet south of crossing, on east	-	
side of road, in line with railway right-of-way fence;	1 100 404	Tagaa
iron post stamped "Iowa 1919 1,162"	1,162.464	USGS
Harcourt, T. 86 N., R. 29 W., cor. secs. 9, 10, 15 and 16, 50		
feet SW. of center of crossroads; in top of 2 foot locust	1 161 46	TTGCG
stump, marked "1,161.4"; copper nail	1,161.46	USGS
feet SW. of center of crossroads, in root of 2-foot cot-		
tonwood tree, marked "1,148.7"; copper bolt	1,148.76	USGS
Hardy	1135 G1129	CRI&P
Harl, M.P. 421		IC
Harl, crossing over C&NW	1273	ic
Harlan	1208.7	CGW
Harlan		CRI&P
Harlan	1195	C&NW
Harlan Junction	1135.G1138	CRI&P
Harper	796,G810	CRI&P
Harper, Clear creek east of	743	IaGS
Harpers Ferry	647.G645	CM&StP
Harpers Ferry, T. 97 N., R. 3 W., 1/4 mile south of center sec. 16. NE. of junction of roads; iron post stamped	•	
sec. 16, NE. of junction of roads; iron post stamped		
"1061D"	1,061.974	Bull. 569
Harpers Ferry, 1.5 miles below, on NE. cor. downstream		-
stone abutment of CM&StP Ry bridge 462K, at lower		
end of bottom land where Harpers slough strikes bluffs,		

# HARPERS FERRY\_HASTIE

	ELEVATION	
STATION	FEET	AUTHORITY
2.5 feet below track, on first course of stone, 9 feet east of center; square cut (U.S.C.E. t.b.m. 20, R.B.)	630.25	Bull. 569
shaped island just below Island 161, in small clump of heavy timber 15 meters from shore; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 201/3):  Copper bolt	615.65	Bull. 569
Cap on pipe	. 619.62	
from foot of bluffs, 0.5 meter east of fence along wagon road, 500 meters below two-story frame house standing		•
opposite triangulation station "Oil Spring," 150 meters below land line between John Martell on north and Peter Joice on south, 150 meters below upper end of		
row of cottonwood trees standing along bank of slough; copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 201/4): Copper bolt	638.14	Bull. 569
Cap on pipe	642.07	
Harpers Ferry, Island 158, planted on, 150 meters below head of island, on high ground in bunch of elms, 50 meters back from shore; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 202/3):		
Cap on pipe	$614.62 \\ 618.58$	Bull. 569
Harpers Ferry, opposite Lynxville, Wis., at side of old	010.00	
wagon road, 0.5 meter west of right-of-way fence of CM&		
StP Ry, nearly opposite upper end of railroad curve, on side of bald, grassy, round-topped bluff, 200 meters be-		
low where Harpers Slough turns away from bluffs toward		
Lynxville; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 202/4):	640.00	D11 #20
Copper bolt	649.93 653.86	Bull. 569
Harris, Osceola Co.	1551	CRI&P
Harris, Polk Co.	938.09	DM&CI
Hartford	813	CRI&P
Hartford, T. 76 N., R. 22 W., center of SW. 1/4 sec. 4,		
west of road opposite T road east, limestone rock 6 by 8		
by 33 inches, set 32 inches in ground; aluminum tablet stamped "773 Adj"	772.575	Bull. 569
Hartford, at south edge of town, SE. angle of T road east,	112.010	Dun. 505
sandstone rock 8 by 10 by 20 inches, set 19 inches in		
ground; aluminum tablet stamped "888"	887.171	Bull. 569
Hartley		CM&StP
Hartley	1465,G1462	CRI&P
Hartley, crossing CM&StP	934	CRI&P C&NW
Harvard	1071	CRI&P
Harvey		CB&Q
Harvey, union station with CRI&P.	710	WRŘ
Harvey, union station with Wabash		CRI&P
Harvey, crossing Wabash	704,G718	CRI&P
Harvey, opposite; top of nut on west side of north tube	702.70	D11 #60
pier of highway bridge across cut-off (U.S.C.E.b.m. 67) Harvey, near, on top of south or downstream side of west	703.70	Bull. 569
shore pier of CRI&P Ry bridge over Des Moines river;		
cross mark (U.S.C.E.b.m. No. 68)	703.80	Bull. 569
Haskell	893.48	DM&CI
Haskins		CM&StP
Hastie	780	WRR

	ELEVATION	
STATION	FEET	AUTHORITY
Hastings	999,G999	CB&Q
Hastings	999	IaGS
Havelock	1231,G1232 1025 G1022	$\begin{array}{c} { m C\&NW} \\ { m CM\&StP} \end{array}$
Havre	747	CB&Q
Hawarden	1180.G1181	C&NW
Hawarden, crossing CM&StP	1178	C&NW
Hawarden	1186,G1182	$rac{ m CM\&StP}{ m CM\&StP}$
Hawarden, crossing to C&NW	1104,01101	CMAST
of railway bridge over Big Sioux river, 0.4 meter north		
of south edge and 2 meters west of east end of capstone,		
2 meters east of center of track, 1.7 meters below rails;	1 100 500	D11 560
bottom of square hole (U.S.C.&G.S.b.m. F)	1,182.593	Bull. 569
9 meters west of road, opposite crossing, 3 meters south		
and 1 meter east of NE. cor. field owned by M. Austin; copper bolt in top of stone post lettered "U.S.B.M."		
copper bolt in top of stone post lettered "U.S.B.M."		72 11 740
(Û.S.C.&G.S.b.m. Ĝ)	1,177.488	Bull. 569
1.8 meters south of center and 2.2 meters east of front		
edge of front step; a yellow circle in blue square tiling,		
5 centimeters on each edge, the most southeasterly blue		- II - IA
square in the design (U.S.C.&G.S.b.m. I)	1,180.650	Bull. 569
Hawarden, on north side of Dakota St., 20 meters west of west line of Kansas St., at SW. cor. lot 14, block 5, on		
south sidewalk line; center of cap upon upper end of		
piece of heavily galvanized 3-inch iron pipe, 8 feet long,		
resting on rock 6 feet underground (U.S.C.&G.S.b.m.		D11 500
Hawarden, 1 kilometer south of, 13 meters east of rail-	1,177.347	Bull. 569
way, 10 meters north of road, 1 meter west and 2 meters		
north of SW. cor. field owned by John Abbey, at level of		
rails; copper bolt in top of stone post lettered "U.S.B.	1 7 50 055	70 11 700
M.'' (U.S.C.&G.S.b.m. J)	1,172.675	Bull. 569
way, 6 meters west of road, opposite crossing, 1 meter		
east of west road fence, at level of rails; iron pipe (U.		
S.C.&G.S.b.m. K)	$1,\!171.267$	Bull. 569
Hawarden, 4.5 kilometers south of, 500 meters north of		
railway cut, 240 meters by rail south of section line, 13 meters northwest of railway and 5 meters south of road,		
0.4 meter below rails, marked by bowlder; iron pipe		
(U.S.C.&G.S.b.m. L)	1,165.361	Bull. 569
Hawarden, 2.5 miles SE., junction with Northern Iowa		CLE NITTE
division Hawkeye		${ m C\&NW} \\ { m CM\&StP}$
Hawkeye, T. 94 N., R. 9 W., NE. cor. sec. 16; iron post	11/1	OHOST
stamped '1194 DBQ''	$1,\!195.442$	Bull. 569
Hawkeye, in front of CM&StP Ry station, top of rail	1,176.5	Bull. 569
Hawkeye, NW. ¼ sec. 14, Windsor Tp Hawley	1285	IaGS M&StL
Hawley, crossing CRI&P	G1214	M&StL M&StL
Hayes, Adams Co.	1160	IaGS
Hayesville	795,G800	CM&StP
HayfieldHayfield, crossing M&StL	$1243 \\ 1221$	CRI&P CRI&P
Hayfield	$\frac{1221}{1214}$	M&StL
Hayfield Junction	$\bar{1221}$	CRI&P
Haynies, opposite switch	960,G956	CB&Q
Haynies, 2.5 miles south of, on east side of public road, on		

STATION	ELEVATION FEET	AUTHORITY
land of Bruce Collier, 984 feet south of Thomas Collier's house, 1,099 feet west of track; copper bolt in benchmark stone surmounted by iron pipe (U.S.C.E.p.b.m.		
334 equals 116/3): Copper bolt	044 545	D11 560
Cap on pipe	944.545 $948.551$	Bull. 569
Haynies, 174 feet NW. of south headblock, 43 feet south of		
fence corner of west right-of-way fence, 45 feet west of		
track; copper bolt in bench-mark stone surmounted by		
iron pipe (U.S.C.E.b.m. 335):	000	70 11
Copper bolt	947.702	Bull. 569
Cap on pipe	951.714	
DBQ''	996.674	Bull. 569
Hazleton		CRI&P
Hedrick, union station with CM&StP	829	M&StL
Hedrick, crossing CB&Q	814	M&StL
Hedrick, crossing CM&StP	830	M&StL
Hedrick	803 806	CB&Q CB&Q
Hedrick	823	CM&StP
Hedrick, over crossing M&StL	G827	CM&StP
CM&StP track		CM&StP
Henderson		CB&Q
Henderson	1031	IaGS
Hentons, 2.5 miles south of, on line between secs. 5 and 8,	967	$^{\mathrm{CB\&Q}}$
T. 72 N., R. 43 W., 308 feet east of quarter-section cor.		
and 46 feet east of railway, land on east side belongs to		
J. Martin; copper bolt in bench-mark stone surmounted		
by iron pipe (U.S.C.E.p.b.m. 338):		
Copper bolt		Bull. 569
Cap on pipe	962.022	
from each fence and 259 feet northeast of station; cop-		
per bolt in bench-mark stone surmounted by iron pipe		
(U.S.C.E.p.b.m. 339):		
Copper bolt	962.219	Bull. 569
Cap on pipe	966.228	
Hentons, 2.5 miles north of station, 741 feet south of bridge 11, section 38, 427 feet west of Hans Schroeder's		
house 43 feet east of railway: conner holt in heach-		
house, 43 feet east of railway; copper bolt in benchmark stone surmounted by iron pipe (U.S.C.E.p.b.m.		
340):		
Copper bolt		Bull. 569
Cap on pipe	973.030	<b>677</b> 4 6
Hepburn	1023,G1016	CB&Q
Herndon, main line		CM&StP CM&StP
Herring	1227	C&NW
Warrold	850.42	DM&CI
Hesper, Winneshiek Co., T. 100 N., R. 8 W., SE. cor. sec.		
16. 10 feet north of NW cor, road crossing: iron post		<b></b>
stamped "1264 DBQ".  Hesper, west of	1,263.835	Bull. 569
Hesper, west of	1360	IaGS CM&StP
Heytmans, Island 151, on, 50 meters back from shore, op-	000,0002	OHOSE
posite center of small island, a little below a point op-		
posite a Government light, two large elms stand close to		
bench mark, one of which appears to be tallest tree in vicinity; copper bolt in tile surmounted by iron pipe		
vicinity; copper bolt in tile surmounted by iron pipe		

<u>-</u> .	Elevation	
STATION	FEET	AUTHORITY
(U.S.C.E.b.m. 203/2):		70 11 200
Copper bolt	615.59	Bull. 569
Cap on pipe	619.65	
Heytmans, opposite head of Crooked Slough, at foot of		
bluffs, along wagon road, 1 meter west of right-of-way fence of CM&StP Ry, 175 meters below a sign "1500		
Feet to Sta.'' (Heytmans), 15 meters above whistling		
post and 25 meters above lower end of small curve; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.É.b.m.		
203/3):		
Copper bolt	647.28	· Bull. 569
Cap on pipe	651.24	
Heytmans, 6.5 miles below Lansing, 1 mile above Heyt-		
mans, on downstream side and river end of upstream		
stone abutment of CM&StP Ry. bridge 504K, 2.7 feet		
below top of rail and 12 feet toward river from center track, 300 meters below signboard "Station 1 mile," 70		
feet above whistling post; square cut (U.S.C.E.t.b.m.		
23 R. B)	633.86	Bull. 569
Hiattsville	1001	WRR
Hickory	805,G799	M&StL
Hickory, T. 72 N., R. 17 W., NW. cor. NE. 1/4 NW. 1/4 sec.	,	
1, 6 feet east by 6 feet south of fence corner, in NW.		
cor. timber, in root on east side of 6-inch hickory tree;		
copper nail and washer, painted "U.S.B.M. 826.7"	826.47	USGS
Hickory, T. 73 N., R. 17 W., NW. cor. SE. 4 SW. 4 sec.		
25, in SE. angle of roads at T road south, in NW. cor.		
yard to farmhouse, in root on west side of a 2-foot maple tree; copper nail and washer, painted "U.S.B.M. 897.7"	897.50	USGS
Hickory, T. 73 N., R. 16 W., near NE. cor. SW. ¼ sec.	091.00	avau
30, in NE. angle of roads at T road north, 160 feet west		
of angle in road to south, 40 feet east by 25 feet north		
of center of road junction, in top of concrete post;		
of center of road junction, in top of concrete post; bronze tablet stamped "E.B. No. 11 1924 Iowa", paint-		
ed "U.S.B.M. 856.0"	855.809	USGS
Hickory, reference mark, 12 feet east by 12 feet north of		
tablet, in root on NW. side of 2-foot white oak tree;	0 = 0 0 0	77000
copper nail and washer	853.90	USGS
Hickory, T. 73 N., R. 16 W., near SE. cor. SW. ¼ sec. 19,		
10 feet north by 35 feet east of bridge over creek, on east side of road, 3 feet east of fence, in top of a 4-		
inch walnut stump; copper nail and washer, painted		
"U.S.B.M. 761.1"	760.85	USGS
Hicks, crossing C&NW, union station		CGW
Hicks	908.81	C&NW
High Bridge	931	CM&StP
High Bridge, over Des Moines river	923,G925	${ m CM\&StP}$
High Bridge, 2 miles east of, at crossroads, west side of		
- sec. 21, Madison Tp.; iron post stamped "951"	949.429	Bull. 569
High Bridge, 1.5 miles east by 0.5 mile north of, at T		
road, NW. cor. sec. 20, Madison Tp.; spike in base of	914.62	Bull. 569
telephone pole (map says 930)	314.02	Dan. 509
SW. cor. sec. 20, Madison Tp.; spike in base of fence		
post	929.03	Bull. 569
Highland	776.G780	CM&StP
Highlandville, Winneshiek Co., 2 miles north of, T. 100	•	
N., R. 7 W., SE, cor. sec. 16, NW, cor. road crossing:		
iron post stamped "1136 DBQ"	1,135.833	Bull. 569
Highview	1133,G1137	IC
Hills, Johnson Co.	637	CRI&P

	ELEVATION	
Station	FEET	AUTHORITY
Hills, Minn., center line passing track	1454	IC
Hills, Minn., crossing GN	1450	$\mathbf{IC}$
Hills, Minn.	1448	$\mathbf{G}\mathbf{N}$
Hills, crossing IC	1445	GN
HillsboroHillside	$732 \\ 874.55$	$^{\mathrm{CB\&Q}}_{\mathrm{DM\&CI}}$
Hilton	993	ISU
Hilton	964	$\overline{\mathbf{w}}$
Hill Top	951	CM&StP
Hinsdale—Subgrade of track opposite center of cinder		
platform	549.8	CRI&P
Hinsdale, B.M. top of monument M.P. 16	558.70 539.99	CRI&P CRI&P
Hinsdale, B.M. top of monument M.P. 17 Hinsdale, B.M. top of monument MP. 18	532.10	CRI&P
Hinsdale and Belfast, top and extreme southwest corner	002.10	OIVIWI
of east abutment of Santa Fe RR bridge crossing Des		
Moines river between; top of abutment (U.S.C.E.b.m. 4)	560.68	Bull. 569
Hinton, union station with CStPM&O	1146	GN
Hinton		IC
Hinton, crossing GN	G1144 1148	IC CStPM&O
Hiteman, T. 72 N., R. 18 W., near center of sec. 22, on	1140	OBIL HWO
north side of road, 400 feet west of crossroads in SE.		
base of 36-inch cottonwood tree; railroad spike, painted		
"970.7" (County Engineer's B.M.)	970.76	USGS
Hiteman, T. 72 N., R. 18 W., at NE. cor. SE. 4 SW. 4		
sec. 22, in SW. angle of roads at T road west, 5 feet		
west by 1 foot north of corner fence post, in top of concrete post; bronze tablet stamped "E.B. No. 2 1924		
Iowa''	962,928	USGS
Hobarton		CM&StP
Holland		CRI&P
Holmes		CRI&P
Holstein		C&NW
Homestead, crossing CM&StP	764	CRI&P CRI&P
Honey Creek	1009.G1008	C&NW
Honey Creek, 1.8 miles south of station, 112 feet north of	,	0
north end of railway bridge 1007, 1.936 feet south of		
milepost 12, 49 feet east of C&NW Ry track; copper		
bolt in bench-mark stone surmounted by iron pipe (U.		
S.C.E.p.b.m. 353): Copper bolt	996.097	Bull. 569
Cap on pipe	1,000.106	ъш. 503
Honey Creek, near station, in west end of south bridge	2,000.100	
seat of plate-girder bridge 998 over Honey creek, 4 feet		
west of south end of west girder; copper bolt (U.S.C.E.		
p.b.m. 354)	1,004.808	Bull. 569
Honey Creek, 2 miles north of station, 2,730 feet south of		
milepost 16 and 46 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.		
p.b.m. 355):		
Copper bolt	1,000.641	Bull. 569
Cap on pipe	1,004.660	
Hope, B.M. spike in pole west of station	1158.59	FtDDM&S
Hopkinton SW 1/ 200 12 M 87 N B 4 W NW 200	866,G866	CM&StP
Hopkinton, SW. ¼ sec. 13, T. 87 N., R. 4 W., NW. cor. Main and Locust Sts., near Central drug store; iron		
post stamped "872"	862,706	Bull. 569
Hopley	1137	
Hornick	L0 <b>67,</b> G1070	CM&StP

# ALTITUDĖS IN IOWA

	ELEVATION	
STATION	FEET	AUTHORITY
Horrabin	641	CRI&P
Hospers13	44.6,G1343	CStPM&O
Hotehkiss	873.55	DM&CI
Houghton, Mount Pleasant line		$^{\mathrm{CB}\&\mathrm{Q}}$
Houghton, crossing over CB&Q, Ft. Madison line		$^{\mathrm{CB}\&\mathrm{Q}}$
Houghton, Ft. Madison line track	680.9	CB&Q
Howell, near, sec. 20, T. 76 N., R. 18 W., 525 feet north	7:11	$\overline{\mathrm{WRR}}$
of Wabash crossing, 40 feet west of road, 60 feet north		
and 35 feet west of road junction, 0.5 foot north of		
wire fence; iron post (Bul. 569, p. 38)	711.960	USGS
Howell, reference mark, 450 feet south of b.m., in top of	,111000	0.000
south end of concrete porch, in front of Pella Pumping		
station No. 1 building; chiseled square	712.37	USGS
Howell, 800 feet east of station, in ground on south side of		
Wabash RR track, top of rail set vertically (U.S.C.E.B.M.		
63) (U.S.C.E. elev. from B569, p. 118=712.780 ft.)	711.36	USGS
Howell, at north end of highway bridge; top of east tube		maaa
pier (U.S.C.E.B.M. 64) (Bul. 569, p. 118=714.030 ft.)	$712.49 \\ 717.7$	USGS
Howell, 0.7 mile west of, railroad crossing; north rail	724.3	Bull. 569 Bull. 569
Howell, 2 miles NW. of, railroad crossing; south rail Howell, 3 miles west by 0.33 mile north of, T. 76 N., R. 19	124.0	Bull. 569
W., in NW. cor. sec. 23, in Coalridge Church yard, 25		
feet east and 25 feet south of center of crossroads; iron	*	•
post stamped "Prim. Trav. Sta. No. 3, 1908, Iowa"	822.831	Bull. 569
Hubbard	1097,G1099	C&NW
Hudson		CGW
Hudson, S. Dakota	1228,G1224	CM&StP
Hudson, S. Dakota, junction with Rock Valley line	1223	CM&StP
Hudson, S. Dak., Rock Valley line	1232,G1224	CM&StP
Hudson, S. Dak., junction with SC&D line	1223	CM&StP
Hughes	1105	C&NW
Hull		USGS CM&StP
Humboldt	1087 G1088	M&StL
Humboldt		Weather Bur.
Humeston	1105,G1104	CB&Q
Humeston, Shenandoah line	1099	CB&Q
Huntington	1345,G1346	M&StL
Hunt's Siding, stock pen	1339	IC
Hurley	1170	CRI&P
Huron, 400 meters below foot of Johnson Island, 8 meters		
from water's edge, 5.7 meters 194° to 12-inch ash, 3.6		
meters 72° to 7-inch maple, 10.2 meters 293° to 18-inch elm tree; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 129/3):		
Copper bolt	525.96	Bull. 569
Cap on pipe	529.98	Dan. 000
Hurstville, Jackson Co.	664	USGS
Hurstville		CM&StP
Hutchins	1202,G1208	CM&StP
Huxley	1021,G1035	$\mathrm{CM\&St}\mathbf{P}$
Huxley, crossing under FtDDM&S	1024	CM&StP
Huxley	1046	${f FtDDM\&S}$
Huxley, T. 82 N., R. 24 W., SW. cor. SE. 14 sec. 14; spike	# 00# 00	70 11 -40
in telephone pole, marked "U.S.B.M. 1003"	1,001.99	Bull. 569
Huxley, near center of north side of sec. 26, T. 82 N., R. 24 W., 50 feet west of electric-railway station; iron		
post stamped "1040",	1,038.481	Bull. 569
Huxley, T. 82 N., R. 24 W., NW. cor. NE. ¼ sec. 27; spike		- m. 608
in telephone pole, marked "U.S.B.M. 1048"	1,046.79	Bull. 569
	_,	2411. 000

	ELEVATION	
STATION	FEET	AUTHORITY
Huxley, T. 82 N., R. 24 W., NW. cor. NE. 1/4 sec. 34; spike	1,00=04	70.11 #00
in telephone pole, marked "U.S.B.M. 1037"	1,035.94	Bull. 569
Huxley, T. 82 N., R. 24 W., SW. cor. SE. 4 sec. 34; spike in telephone pole, marked "U.S.B.M. 1021"	1,019.49	Bull. 569
Hyperion Club station	858.15	DM&CI
Ida Grove	1225,G1225	C&NW
Imogene	1044	$\overline{\mathrm{WRR}}$
Independence	917,G923	ĪČ
Independence, crossing CRI&P	912,G921	IC
Independence	914,6921	CRI&P CRI&P
Indian Creek, top of rail, center line of overhead bridge	314	Cutwe
on east line sec. 19, Tp. 83, R. 6, 140 feet north of SE.		
cor. sec. 19	724.31	CR&IC
Indianola		CRI&P
Indianola, crossing CB&Q	962	CRI&P
Indianola, T. 76 N., R. 23 W., SW. cor. sec. 16, NE. angle	972	$^{\mathrm{CB\&Q}}$
of crossroads, limestone rock; aluminum tablet stamped		
"948 Adj"	946.812	Bull. 569
Indianola		Weather Bur.
Indianola Junction	10 <b>4</b> 0,G1040	CB&Q
Industry, 2 miles south by 1 mile east of, T. 89 N., R. 27	124.3,G1129	cgw
W cor cose 7 9 17 and 19 20 ft NW of creamends		
W., cor. secs. 7, 8, 17 and 18, 30 ft. NW. of crossroads, in base of corner fence post, marked "1,117.8"; spike	1,117.74	USGS
Industry, 1 mile south by 1 mile east of, T. 89 N., R. 27	1,111	0.000
W., cor. secs. 5, 6, 7 and 8, 55 ft. NW. of crossroads, in		
root of 15-inch boxelder tree, marked "1,124.8"; copper		
nail and washer	1,124.65	USGS
Industry, 1 mile east of, Tps. 89 and 90 N., R. 27 W., cor.		
secs. 5, 6, 31 and 32, 35 ft. NE. of crossroads; iron post stamped "IOWA 1919 1,130"	1,129.600	USGS
Industry, Tps. 89 and 90 N., Rs. 27 and 28 W., cor. secs.	1,120.000	· ODOD
1, 6, 31 and 36, 40 ft. SW, of crossroads, in root of		
large willow tree, marked "1,121.6"; copper nail	1,121.49	USGS
Industry, 1 mile west of, Tps. 89 and 90 N., R. 28 W., cor.		
secs. 1, 2, 35 and 36, T road N., 35 ft. NE. of road fork;		
at fence corner, in top of stump standing 6 inches above	1,124.44	USGS
ground, marked "1,124.5"; copper nail and washer Industry, Tps. 89 and 90 N., R. 28 W., cor. secs. 2, 3, 34	1,141.11	opap
and 35, 40 ft. SE. of crossroads; iron post stamped		
"IOWA 1919 1,136"	1,135.573	USGS
Industry, 3 miles west of, Tps. 89 and 90 N., R. 28 W., cor.		-
secs. 3, 4, 33 and 34, 30 ft. NE. of crossroads, in root of		
large willow tree, marked "1,128.2"; copper nail and washer	1,128.12	USGS
Ingersoll	882 G885	CM&StP
Ingersoll, T. 80 N., R. 26 W., SE. cor. SE. 1/4 sec. 12, in	002,0000	01440011
corner of field, 2.5 feet west of Dallas county line, on		•
C. E. Waters's place, 200 yards east of house; iron post	000010	<b>**</b> ** ***
stamped "867"	866.142	Bull. 569
Ingersolt, T. 80 N., R. 25 W., SW. cor. NE. ¼ sec. 20, NE. cor. schoolhouse yard; iron post stamped "881"	879.221	Bull. 569
Inwood ?		CM&StP.
Ionia	1144,G1149	CM&StP
Iowa City, top of rail, north end of Iowa river bridge,	,	
Iowa City		CR&IC,
Iowa City, bench mark, SE. cor. of step of east door of	699.71	CD LTC
Engineering Building, State University of Iowa	654 G654	CR&IC CRI&P
	302,0001	, OIVIWI

	ELEVATION	
Station	FEET	AUTHORITY
Iowa City, Wright St. Sta.	671	CRI&P
Towa City	G685	Weather Bur.
Iowa Falls, St. Paul-Kansas City line	1098	CRI&P
Iowa Falls, St. Paul-Kansas City line	1096	CRI&P
lowa Falls, crossing Sloux Falls line CKI&P	1107	CRI&P
Iowa Falls, Sioux Falls line	1112,61107	CRI&P
Iowa Falls, crossing IC	1109 1090	CRI&P C&NW
Iowa Falls	1104 (21103	IC
Iowa Falls, crossing St. Paul Div. CRI&P	1110	ĨĊ
Iowa Falls, crossing Sioux Falls line CRI&P	1106.G1105	ĬČ
Iowa Falls, crossing over C&NW	1099	IC
Iowa Falls	G1107	Weather Bur.
Iowa Falls and Alden, morainal hill between, on north		
side river	1225	IaGS
Iowa Junction	627,G628	CRI&P
Iowana	580.40	CD&M
<u>Ira</u>	831.7,G829	CGW
Ireton		C&NW
Irma		· IC
Iron Hill, Allamakee Co. Iron Hill, Jackson Co.	940	USGS
Irving	798	C&NW
Irvington	1151 G1155	C&NW
Irwin		CGW
Irwin	.1263,G1262	C&NW
Island City	622.50	CD&M
Island Park	982.5,G980	$\cdot CB\&Q$
Island Park, 1,148 feet south of station, 164 feet south of		-
public-road crossing, 46 feet east of railway; copper		
bolt in bench-mark stone surmounted by iron pipe (U.		
S.C.E.p.b.m. 341):		~ 11
Copper bolt		Bull. 569
Cap on pipe	971.737	
Island Park, T. 73 N., R 43 W., on south line of sec. 6, 603 feet east of SW. cor. of SE. 1/4 SE. 1/4 sec. 6, in		
dooryard of C. H. W. Busse; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 119/3):		
Copper bolt	968.92	Bull. 569
Copper bolt	973.00	
Jackson Junction, Ia. & Dak. line	1163,G1169	CM&StP
Jackson Junction, Davenport line	1161,G1169	CM&StP
Jacobs Switch		M&StL
Jamaica		CM&StP
James	1130	IC
James, Platform (abandoned)	1122	GN
Jamison		CStPM&O
Janesville		CB&Q IC
Tefferson	1056 G1057	C&NW
Jefferson, CM&StP crossing.	1053	C&NW
Jefferson	1059.G1062	CM&StP
Jefferson, crossing C&NW	1054,G1056	CM&StP
Jefferson, S. Dakota	1117,G1102	CM&StP
Jerome	1038.G1042	CM&StP
Jesup	979,G980	IC
Jewell, Des Moines line	1054,G1059	C&NW
Jewell, Eagle Grove line	1056	C&NW
Johnson NE 1/ 200 7 W 70 N P 24 W morthoost	832.19	DM&CI
Johnson, NE. 1/4 sec. 7, T. 79 N., R. 24 W., northeast		

STATION	ELEVATION FEET	AUTHORITY
corner Lawson schoolhouse; iron post stamped "833 Adj		
Johnson, Ridgedale schoolhouse, near center sec. 36, T. 80 N., R. 25 W., SE. cor. school yard, opposite road	831.943	Bull. 569
south; iron post stamped "959 Adj. 1903"	957.965	Bull. 569
Copper bolt	$637.25 \\ 641.21$	Bull. 569
Joice	1262	<ul> <li>C&amp;NW</li> </ul>
Jolley	.230,G1232	CM&StP
Jordan	1110	C&NW
Jordan, 4.5 miles east of, T. 84 N., R. 25 W., SE. cor. sec. 25, at county line between Boone and Story counties, NW. cor. forks at T road west, at fence corner; iron		
post stamped "1016"	1,014.972	Bull. 569
cut in top of corner stone, marked "1011.5"	1,010.524	Bull. 569
Jordan, T. 84 N., R. 25 W., NW. cor. sec. 35, north-south section line crossing east-west road, south side of road about 20 feet east of section line, inside of fence; cop-	1,010.021	•
per nail in top of willow stump, marked "1042.9"	1,041.93	Bull. 569
of fence corner; iron post stamped "1095"	1,093.738	Bull. 569
marked "1071.1"  Jordan, 1.5 miles east by 1 mile south of, Tps. 83 and 84  N., R. 25 W., cor. secs. 33, 34, 3, and 4, in center of crossroads; chiseled square in top of corner stone, marked	1,070.21	Bull. 569
('1070.8')	1,069.88	Bull. 569
Jordan, 1.5 miles east of, T. 84 N., R. 25 W., SW. cor. sec. 27, NE. cor. crossroads; iron post stamped ''1040''	1,039.379	Bull. 569
Jordan, 1.5 miles east by 1.5 miles north of, T. 84 N., R. 25 W., west center of sec. 22, NE. cor. crossroads, in corner fence post; copper nail in post about 1½ feet	1,044.81	Bull. 569
above ground, marked '' 1061.3''  Jordan, T. 84 N., R. 25 W., SW. cor. sec. 15, NE. cor. crossroads, inside of fence corner, just north of corner fence post; copper nail in base of willow tree, marked	1,060.36	Bull. 569
Jordan, T. 84 N. R. 25 W., SW. cor. sec. 10, NE. cor. crossroads, 65 ft. NE. of center of crossroads; copper	1,063.50	Bull. 569
nail in base of telephone pole, marked "1045.9"	1,044.91	Bull. 569
Judd		IC IC
Judith	818	CRI&P
Julien		IC
Julien, T. 89 N., R. 1 E., sec. 36, east-west road crossing	,	10
IC RR near railroad fence, north side of wagon road, 50 feet west of railroad track; iron post stamped "869"	860.048	Bull. 569
Juniata	1384,1380	CM&StP
	•	

	ELEVATION	
STATION	FEET	AUTHORITY
Junction Switch	842	CM&StP
Kains Kains, in front of CM&StP Ry station; base of rail (U.	638,6632	CM&StP
S.C.E.b.m.)	634.52	Bull. 569
Kains, Battle Island (137), on high sand ridge, 0.5 mile	001.02	Duii. 000
above foot of island, 75 meters from edge of sand bar,		
Kains, Battle Island (137), on high sand ridge, 0.5 mile above foot of island, 75 meters from edge of sand bar, 20 meters from main bank, 100 meters below lower end		
of small willows on bar; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 208/2):	400 7 7	T 11 500
Copper bolt	$622.11 \\ 626.06$	Bull. 569
Cap on pipe	020.00	
100 meters back from bank of river, 25 meters below		,
south end of dam across slough; copper bolt in tile sur-		,
mounted by iron pipe (U.S.C.E.b.m. 208/3):		
Copper bolt	619.93	Bull. 569
Cap on pipe	623.87	
Kains, Island 139, in timber on west bank of small dry slough, in bend of large slough, 50 meters east and 50		
meters south from bank of slough; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 208/4):		
Copper bolt	621.53	Bull. 569
Cap on pipe	625.47	
Kains, 1 mile above, 5 miles below New Albin, on up-		
stream side and river end of downstream abutment of		
CM&StP Ry bridge 560K, 125 meters above milepost 29- 132, 3 feet below track, 10 feet toward river from center;		
square cut (U.S.C.E.t.b.m. 28, R. B)	636.18	Bull. 569
Kalo	1016	M&StL
Kalona		CRI&P
Kamrar	1115	C&NW
Kanawha		M&StL
Kellerton	1193,G1197	CB&Q
Kelley	1029,G1033	C&NW FtDDM&S
Kelley, T. 82 N., R. 25 W., NW. cor. sec. 1; iron post	1027	I DDMCS
stamped "1046"	1,044.226	Bull. 569
Kelley, T. 83 N., R. 24 W., SW. cor. sec. 30; iron post	,	
stamped ''1032''	1,030.455	Bull. 569
Kelley, T. 83 N., K. 24 W., SW. cor. sec. 28; spike in tele-		TO 11 W40
phone pole, marked "U.S.B.M. 1003"	1,001.60	Bull. 569
of telephone pole, marked "U.S.B.M. 1017"	1,015.64	Bull. 569
Kelley, T. 83 N., R. 24 W., center of sec. 27, at NW. cor.	1,010.01	
crossroads: iron post stamped "987"	986.151	Bull. 569
Kelley, T. 83 N., R. 24 W., center of sec. 26, SE. cor.		
crossroads; spike in telephone pole, marked "U.S.B.M.		
943"	941.79	Bull. 569
Kelley, T. 83 N., R. 24 W., center of line between secs. 25		
and 26, SW. cor. of crossroads; top of large rock, marked "U.S.B.M. 930"	928.30	Bull. 569
[Established by Iowa State College students.]	020.00	Dan. 000
[Established by Iowa State College students.] Kelley, on west side of equalizer foundation in south pipe		
line (of 2), 33 feet west of pole 770 of FtDDM&S Ry,		
21 feet east of similar equalizer in north pipe line;	1 007 02	D11 500
Kelley, square-cut on track side of concrete base of east-	1,027.23	Bull. 569
bound home signal, 10.5 feet east of point of switch, 30		
feet east of pole 766	1,027.14	Bull. 569
Kelley, square cut on east end of baggage-door lintel of	,	
station of FtDDM&S Ry, opposite pole 763	1,029.29	Bull. 569

# KELLEY-KEOKUK

	Ter my t my ony	
Station	ELEVATION FEET	AUTHORITY
Kelley, spike in track of pole 757, 1 foot above ground Kelley, spike in track side of pole A414, 1 foot above	1,030.69	Bull. 569
ground  Kelley, T. 83 N., R. 24 W., spike in track side of pole A386,	1,029.73	Bull, 569
south side of east-west road along north line of sec. 32 Kelley, Pole A360, 1 foot above ground, in track side of;	1,013.03	Bull. 569
spikeKelley, T. 83 N., R. 24 W., spike in track side of pole	1,015.89	Bull. 569
A332, 1 foot above ground, first pole north of east-west road along north line of sec. 29	1,023.31	Bull. 569
Kellogg	842,G844	CRI&P
Kemper	528,G529	$^{\mathrm{CB}\&\mathrm{Q}}$
Kennebec Kennedy	054 (2057	IC CM8-S+D
Kensett	1220	CM&StP CRI&P
Kensett		M&StL
Kent		CB&Q
Kenwood	1941 (21945	CM&StP
Kenwood, divide in SE. ¼ sec. 32, Hanover Tp., Craw-	1211,01210	OMMOU
ford Co.	1355	CM&StP
Keokuk, union station		CB&Q
Keokuk, center Union Depot, top of rail	506.0	CRI&P
Keokuk, B.M. cross on top of foundation wall, NW. cor.	500.0	OWIGH
CRI&P Ry engine house	496.23	CRI&P
Keokuk, top of monument M.P.2	497.69	CRI&P
Keokuk, top of monument M.P. 3	499.25	CRI&P
Keokuk, top of monument M.P. 4.	506.42	CRI&P
Keokuk, in coping of shore side of lower lock of Des Moines	500.42	Olliwi
Rapids canal, in recess between stone steps and stone pier of lower hydraulic tower, on south side of pier; copper		<u> </u>
bolt (U.S.C.E.p.b.m. 1)  Keokuk, in south face of Iowa shore pier of railroad	493.641	Bull. 569
bridge, 8 inches above bench in pier, in tenth stone from west end; copper bolt (U.S.C.E.p.b.m. 2)	494.346	Bull. 569
cut in upper surface of stone buttress; small conical		
hole (U.S.C.E.p.b.m. 4)  Keokuk, 2 miles above, in coping of west wall of sluiceway	499.828	Bull. 569
at south end of middle canal lock; copper bolt (U.S. C.E.p.b.m 1)	501.571	Bull. 569
Keokuk, below, on south side of right of way fence on south side of CB&Q RR, 150 meters from right bank,		
400 meters below or west of lower one of sawmills on		
right bank, 500 meters above head of Island 405, which is at upper mouth of Des Moines river; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 110/3):	<b>\$</b>	
Copper bolt	487.20	Bull, 569
Cap on pipe	491.17	Dun. 503
Keokuk, second door from corner of Johnson St., in SW.	491.17	
cor. three-story stone building, owned by Mr. Patterson, facing on Water St., 8 inches above west doorsill, on		
inner side of outer wall, 15 meters from corner of Water		
and Johnson Sts.; copper bolt (U.S.C.E.p.b.m. 3) Keokuk, in wall at upper end of front of Brown's ware-	509.559	Bull. 569
house; spike (U.S.C.E.p.b.m. 52 Mackenzie equals high-	400 50	D-11 F00
water mark of 1851)	498.58	Bull. 569
near foot of Exchange St. top of magon grand of the	neweens	
near foot of Exchange St., top of wagon-guard stone (U.S.C.E. city b.m.)		Bull. 569
City datum	18 283 94	ъш. 509
Keokuk, in south face of Iowa shore abutment of railroad	1001	
,		

STATION	ELEVATION FEET	AUTHORITY
bridge, 8 inches above bench of abutment, in tenth stone from west end; copper bolt (U.S.C.E.p.b.m. 2)	494.346	Bull. 569
Keokuk, in stone masonry at extreme lower end of east wall or pier of lower lock of Des Moines Rapids canal; cut in stone (U.S.C.E. zero, U. S. Engineer gage, lower lock)		70.11 500
elevation of zero		Bull. 569
Rapids canal; marks cut in stone masonry and figures by them (U.S.C.E. high-water marks of 1851, 1888, 1881):		
1851	497.48	Bull. 569
1881 Keokuk and Hamilton bridge, 270 meters east of east end	496.78	
of, 45 meters north of railroad track, in woods 13 meters SE. of road, 75 meters east of where road joins railroad before crossing bridge; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 111/2):		
Copper bolt	487.45 $491.41$	Bull. 569
Keckuk, on top of coping on outer corner of apex of lower gate recess on shore side of lower lock of Des Moines		
Rapids canal (U.S.C.E. canal b.m. Stickney) Keokuk, Des Moines Rapids canal, 920 meters below lower	<b>493.6</b> 0	Bull. 569
end of sluiceway of middle lock of, in yard about 30 meters west of railroad, 30 meters above house, 70		
meters above an old ice house, the road from top of bluff at Rand Park passes about 15 meters west of stone		
and joins road up west side of railroad at point about 50		
meters north of stone; stone post (U.S.C.E. \( \triangle \) lower base)	513.55	Bull. 569
way at south end of middle canal lock; copper bolt (U.		DU. 500
S.C.E.p.b.m. 1)  Keokuk, Des Moines Rapids canal, in stone masonry on		Bull. 569
east side of middle lock of, just below lower gate; gage is cut in stone (U.S.C.E.b.m. lower gage, middle lock)	484.04	Bull. 569
Keokuk, Des Moines Rapids canal, just below lower gate, on east side of middle lock, marks and figures cut in masonry by gage (U.S.C.E. high-water marks of 1891,		
masonry by gage (U.S.C.E. high-water marks of 1891, 1888, 1881):		
1891 1888		Bull. 569
Keokuk, Des Moines Rapids canal, in stone masonry on	496.84	
Keokuk, Des Moines Rapids canal, in stone masonry on east side of middle lock of, just above upper gate; cut in stone (U.S.C.E. upper gage, middle lock)	492.00	Bull. 569
Keokuk, Des Moines Rapids canal, on north side of sluice- way from dry dock of middle lock of, cut in stone (U.	•	2000
S.C.E. rapids gage, middle lock)	485.98	Bull. 569
way from dry dock of middle lock of; mark and figures cut in stone masonry by gage (U.S.C.E. high-water	•	
cut in stone masonry by gage (U.S.C.E. high-water mark 1888, rapids, middle lock)	499.85	Bull. 569
switch at upper end of middle lock, 3 meters west of railroad, immediately opposite entrance to dry dock from		
canal; stone post (U.S.C.E. △ upper base) Keokuk, Des Moines Rapids canal, 1 mile above middle lock of, in timber on left bank, about 20 meters from left	502.01	Bull. 569

# KEOKUK-KING

Q-1	ELEVATION	
STATION	FEET	AUTHORITY
bank, 111/2 meters east of center of road up river bank,		
15 meters west of center of old road up river, but		
farther up on hillside, 130 meters north of half-section		
line, which is a lane on bluff, on north side of small		
cemetery, 40 meters north of wash or small ravine on		
hillside, on land of Martha Parsons, 400 meters above		
some exposed rocks near left bank at low water; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
112/2): Copper bolt	549.30	Bull. 569
Cap on pipe	553.32	ъш. 509
Keokuk, on NW. cor. east abutment of CB&Q RR bridge	000.02	
near mouth of Des Moines river, 1 foot from face of		
abutment; cross mark (U.S.C.E.b.m. 1).	496.63	Bull. 569
Keokuk, Mississippi river, low water	G477	Miss. Riv. Com.
Keokuk, Mississippi river, high water	G494	Miss. Riv. Com.
Keokuk, city base	G482	Weather Bur.
Keokuk'	G614	Weather Bur.
Keosauqua, B.M. top of monument M.P. 3	667.53	CRI&P
Keosauqua, B.M. top of monument M.P. 4	636.51	CRI&P
Keosauqua, top of rail, center of depot	635.08	CRI&P
Keosauqua, B.M. cross on top of bench of pier under SE.	606.00	CDT %D
cor. of depot	636.98	CRI&P
Keosauqua, at SW. cor. concrete porch floor of Manning	579.14	Bull. 569
Hotel (U.S.C.E.b.m. 29)  Keosauqua, on top of east end of south abutment of high-	319.14	ъші. 509
way bridge; cross mark (U.S.C.E.b.m. 30)	588.41	Bull. 569
Keosauqua	G664	Weather Bur.
Keota		CRI&P
Kesley	995	C&NW
Keswick	863,G872	CRI&P
Ketcham	691,G694	$^{\mathrm{CB}\&Q}$
Kew11		$^{\mathrm{CB\&Q}}$
Keystone		CM&StP
Keywest, junction of road south to cemetery gate	G841	USGS
Kidder		CGW
Kilbourne—Subgrade of track opposite center of depot Kilbourne, B.M. top of monument M.P. 48 (U.S.C.E.b.m.	596.5	CRI&P
32)	596.96	CRI&P
Kilbourne, 1 mile NW. of, B.M. top of monument M.P. 49	000.00	Oww
(U.S.C.E.b.m. 33)	601.41	CRI&P
(U.S.C.É.b.m. 33)		***************************************
(U.S.C.E.b.m. 34)	603.95	CRI&P
Kilbourne, 3 miles NW. of, B.M. top of monument M.P. 51		
(U.S.C.E.b.m. 35)	598.71	CRI&P
Kilbourne, top of SW. cor. north abutment of highway		
bridge (U.S.C.E.b.m. 91)	599.86	Bull. 569
Kilduff	932	M&StL
Kimball Kimball, T. 75 N., R. 21 W., west of SE. cor. sec. 5, NW.	814	CRI&P
angle of crossroads, in limestone rock 6 by 8 by 28		
inches, set 27 inches in ground; aluminum tablet		
stamped "869 Adj"	867.704	Bull. 569
Kimball, T. 76 N., R. 21 W., NE. cor. sec. 33, 2.5 miles	0011101	244. 000
south of Pleasantville, in SW. angle of crossroads, at		
NE. cor. schoolhouse, sandstone rock 8 by 10 by 22		
inches, set 21 inches in ground; aluminum tablet		
stamped ''894 Adi''	893.119	Bull. 569
King, Dubuque Co., T. 88 N., R. 3 E., near center NE. 1/4		
sec. 27, St. Katherine's Church, NW. cor. yard of	1 114 550	T) 11 FGG
priest's house; iron post stamped "1123"	1,114.552	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Kingsley	1236,G1237	C&NW
Kingston, 0.5 mile above Oquawka, on Iowa shore, 10		,
meters from river bank, 140 meters below Government		
light opposite upper end of Oquawka, Ill.; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.b.m. 128/3):	525.15	Bull. 569
Cap on pipe	529.14	Dull. 309
Kingston, on small ridge 674 meters back of preceding	020.11	
bench mark, 4.3 meters 222° to 18-inch hickory tree, 6.8		
meters 15° to 12-inch ash tree, 6.6 meters 125° to 20-		
inch elm tree; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 128/4):		
Copper bolt	525.35	Bull. 569
Cap on pipe	529.36	
Kinross		CRI&P
Kinsey	882.28	DM&CI
Kirgis	$989.73 \\ 1233$	DM&CI
Kirkman		C&NW CGW
Kirkville, B.M. top of monument M.P. 81		CRI&P
Kirkville, B.M. top of monument M.P. 82	658.83	CRI&P
Kirkville, B.M. top of monument M.P. 83	666.78	CRI&P
Kirkville, B.M. top of monument M.P. 84	670.70	CRI&P
Kirkville, top of rail, center depot	697.5	CRI&P
Kirkville, B.M. top of monument M.P. 85	688.71	CRI&P
Kirkville, B.M. top of monument M.P. 86	. 687.33	CRI&P
Kirkville, B.M. top of monument M.P. 87 (U.S.C.E.b.m. 50)		CRI&P
Kiron	1307	C&NW
Kiron, divide in NW. 1/4 sec. 9, Stockholm Tp., Crawford Co.	1419	C&NW
Kiron, crossing Otter creek		C&NW
Kiron, divide in SW. ¼ sec. 10, Otter Creek Tp., Crawford	1455	C&NW
Klemme		CRI&P
Klondike Junction, Des Moines	826.71	DM&CI
Knierim	1178.G1178	IC
Knierim, crossing over CRI&P	1205	IC
Kniffin	1075.G1086	CRI&P
Knoke	1243,G1240	CM&StP
Knowlton		CGW
Knoxville		CB&Q
Knoxville Knoxville, T. 76 N., R. 20 W., 0.25 mile west of NE. cor.	G910	Weather Bur.
sec. 24, west and 130 feet south of center of crossroads,		
40 feet south of small wooden culvert, in angle of rail		
fence; iron post stamped ''819 Iowa''	817.718	Bull. 569
Knoxville, T. 76 N., R. 19 W., SE. cor. sec. 20, near Mount		<b>Dun.</b> 000
Vernon Chapel, in front yard of J. J. Woody, SE. of		
house and just inside fence along north side of road;		
iron post stamped "864 Iowa"	862.777	Bull. 569
Knoxville, T. 76 N., R. 19 W., SE. cor. sec. 29, near Wash-		
ington Church, in line with east and west road, in NE.		
root of maple tree 30 inches in diameter; 40-penny nail	876.718	Bull. 569
Knoxville	895,G909	CRI&P
Koenigsmark (Lefebure), top of rail on south line sec. 17,		CT O T C
Tp. 82, R. 7, 1150 feet east of SW. cor. sec. 17	810.60	CR&IC
Koenigsmark, top of rail on south line sec. 20, Tp. 82, R. 7, 340 feet east of SW. cor. sec. 20	852.90	CR&IC
Koenigsmark, top of rail on south line sec. 29, Tp. 82, R. 7,	002.00	Onaro
100 feet east of SW. cor. sec. 29.	853.60	CR&IC
Koyle		CB&Q
Koyle, Des Moines line	983	CB&Q
		-

	ELEVATION	
STATION	FEET	AUTHORITY
Lacey 2	812,G805	M&StL
Lacona, T. 74 N., R. 22 W., NW. cor. sec. 9, in SE. cor.	824,G822	$^{\mathrm{CB}\&\mathrm{Q}}$
crossroads, at south end of tile drain, on 4 by 2 by 2.5		-
foot howlder: highest point of chiseled circle	901.37	Bull. 569
foot bowlder; highest point of chiseled circle	002.01	Dan. 000
crossroads, at SW. cor. school yard; iron post stamped		
''Iowa, 865, 1913'' Lacona, T. 74 N., B. 22 W., SE. cor. sec. 3, at crossroads,	864.605	Bull. 569
Lacona, T. 74 N., R. 22 W., SE. cor. sec. 3, at crossroads,		
center of jog in east-west road, at SW. cor. wooden	010.05	72 11 1100
bridge over Flank creek, in bridge floor; copper nail Lacona, high-water mark June 24, 1913, wooden bridge over Flank creek, west side of bridge, on east side of	813.85	Bull. 569
over Flank greek west side of bridge on east side of		
center rail post: pencil mark ('815.8')	815.8	Bull. 569
center rail post; pencil mark "815.8"	010.0	Dan. 000
Catholic Church, 6 feet east of stump of cottonwood tree,		
at N.E. angle of crossroads, in sandstone post; aluminum		
tablet stamped "Prim. Trav. Sta. No. 5, 926." (An		
old tablet reset in new stone same location but 0.265 foot	924.436	D11 560
lower. Old stone had split)Lacona, T. 74 N., R. 22 W., SW. cor. sec. 1, at NE. cor.	924.430	Bull. 569
crossroads, 25 feet east of corner post, in root of 10-inch		
elm tree; copper nail	885.27	Bull. 569
Lacona, T. 74 N., R. 22 W., sec. 12, at NE. cor. at SW.		
cor. private T road south, 10 feet west of fence corner;		
iron post stamped ''Iowa, 909, 1913'' La Crew	909.171	Bull. 569
La Crew Laddsdale	. 715,G717	CB&Q
Ladoga		$\begin{array}{c} \mathrm{CRI\&P} \\ \mathrm{CB\&Q} \end{array}$
Ladora		CRI&P
Lafayette, crossing under road, subgrade		WCF&N
Lafayette, overhead highway bridge	897.53	WCF&N
Lainsville	. 599,G599	CM&StP
Lainsville, 250 meters below, 0.5 meter from fence on right		
of way of CM&StP Ry, 25 meters above small bridge; copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 168/3):		
Copper bolt	606.50	Bull.569
Cap on pipe		2011.000
Lainsville, on right bank opposite Arnolds landing, at head		
of Island 259, 25 meters from river bank, in open tim-		
ber partly cleared; copper bolt in tile surmounted by	•	
iron pipe (U.S.C.E.b.m. 169/3): Copper bolt	E04.07	D11 #40
Cap on pipe		Bull.569
Lainsville, on right bank opposite Arnolds landing, 696		
meters from river bank, on east bank of slough in open	L	
timber; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.b.m. 169/4):		
Copper bolt	584.77	Bull.569
Cap on pipe		CLORTTON
Lake City Lake Mills	-1243,G1249 -1966 G1966	C&NW M&StL
Lake Mills		C&NW
Lake Mills, crossing M&StL	. 1258	C&NW
Lake Okoboji, West, hill back of Lakeside Laboratory,	,	
Millers Bay	. 1510	IaGS
Lake Park	.1469,G1469	CRI&P
Lakes Okoboji	1407	CM&StP
Lakewood		CM&StP CStPM&O
LIGROWOOD	. 1991.0	Collingo

	ELEVATION	
STATION	FEET	AUTHORITY
Lake View	1243	C&NW
Lakota		CBI&P
Lamoille		C&NW
Lamont Lamont		$^{\mathrm{CB\&Q}}$
Lamont, T. 90 N., R. 7 W., NE. cor. sec. 21, at road cross-	1040.0	Cavv
ing; iron post stamped "1061 DBQ"	1,061:951	Bull. 569
Lamont, in front of CGW RR station; top of rail	1,045.6	Bull. 569
La Motte	911,G910	${ m CM\&StP}$
La Motte, T. 86 N., R. 4 E., SW. 1/4 sec. 6, junction of		
wagon roads near Anton Ernest's house; iron post	700 740	D-11 500
stamped ''708'' La Motte, T. 87 N., R. 3 E., sec. 22, SE. cor. Nat Mandor's shed, west side of road, 200 feet SW. of bridge over Tete	700.149	Bull. 569
shed west side of road 200 feet SW of bridge over Tete		
des Morts creek, on half-section line; iron post stamped		
('718''	709.829	Bull. 569
La Motte, sec. 4, T. 86 N., R. 3 E., cor. Market and Water		
Sts., 40 feet NE. of railroad; iron post stamped "923"	914.661	Bull. 569
La Motte, middle NE. 1/4 sec. 6, Richland Tp.	1125	USGS
La Motte, east ½ sec. 6, Prairie Spring Tp	$\frac{1190}{740}$	USGS
La Motte, Middle Prairie Spring TpLamp Siding, stock pen	1114	CM&StP
Lanesboro 11	41.5.G1148	CGW
Langdon	1370.G1371	M&StL
Langworthy	867,G868	${ m CM\&StP}$
Lansing Lansing, NE. of intersection of Main and Second Sts.,	635,G <b>6</b> 30	${ m CM\&StP}$
Lansing, NE. of intersection of Main and Second Sts.,		
near SW. cor. implement warehouse of Nielande & Co.;	654 409	D11 560
aluminum tablet stamped ''653 DBQ'' Lansing, T. 99 N., R. 4 W., on east side sec. 20 (map shows B.M. in sec. 16), 12 feet west of NE. cor. post	654.493	Bull. 569
shows B.M. in sec. 16). 12 feet west of NE. cor. post		
cemetery; iron post stamped '1216 DBQ''	1,217.533	Bull. 569
Lansing, Carol Island, planted on, 250 meters below head of Ferry slough, 25 meters back from shore, opposite	,	
of Ferry slough, 25 meters back from shore, opposite		
foot of first small island below head of Ferry slough,		
100 meters above a log cabin, in bunch of elms; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		,
204/2):		
Copper holt	618.62	Bull. 569
Cap on pipe	622.59	
Cap on pipe		
meter outside of right-of-way fence of CM&StP Ry		
(bluff side), 25 meters above upper end of sharp curve		
around foot of Capoli bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 204/3):		•
Copper bolt	654.43	Bull. 569
Cap on pipe	658.37	Duii. 000
Lansing, Island 148, 400 meters above head of, on large		
island, in bunch of willows, 50 meters back from shore.		
150 meters above head of bay; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 205/2):		
mounted by iron pipe (U.S.C.E.b.m. 205/2):	075 50	T 11 F40
Copper bolt	$615.50 \\ 619.45$	Bull. 569
Lansing, 2 miles below station, in meadow at foot of bluffs	019.49	
on property of Julius Nelson, 0.5 meter toward bluffs		
on property of Julius Nelson, 0.5 meter toward bluffs from fence along wagon road, 155 meters below milepost		
123-38, 120 meters above culvert 518; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 205/3):	250 50	- N N
Copper boltCap on pipe	$653.78 \\ 657.74$	Bull. 569
	007.74	

# LANSING-LAWN HILL

	ELEVATION	
STATION  Lansing, in front of CM&StP Ry station; base of rail	FEET	AUTHORITY
(U.S.C.E.b.m.)  Lansing, on SE. cor. G. W. Herndt's warehouse; high-water	632.69	Bull. 569
mark of June, 1880	633.98	Bull. 569
Lansing, Island 146, on high ground in bunch of elms, 40 meters back from shore at Government light, opposite		
upper end of Lansing; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m, 206/2):  Copper bolt	619.61	Bull. 569
Cap on pipeLansing, opposite 1-mile post above, 34 meters back from	623.57	
railroad, at foot of bluffs, 75 meters above an old mil	l	
that stands on bank of slough, and is last building in upper end of Lansing; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 206/3):		D 11 540
Copper bolt	648.77	Bull. 569
Lansing, 1.5 miles above, on upstream side and river end of downstream abutment of CM&StP Ry bridge 530K, 0.8		
foot below track and 7 feet east of center; square cut		
(U.S.C.E.t.b.m. 26, R. B)	637.35	Bull. 569
back from shore, 100 meters below upper end of timber,		
30 meters below an old shed, inside a lot, 1 meter from east fence; copper bolt in tile surmounted by iron pipe	)	
(U.S.C.E.b.m. 207/3): Copper bolt		Bull. 569
Cap on pipe	624.67	Dun. 505
Lansing, 3 miles above, planted at foot of bluffs, 1 meter east of west right-of-way fence of CM&StP Ry, 425	•	
meters above bridge 540K, 475 meters above a house, 0.5	i	
mile above triangulation station Cowles, opposite end of railroad curve, 0.5 mile below schoolhouse; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 207/4): Copper bolt	640.19	Bull, 569
Cap on pipe	. 644.15	Dan: 000
Lansing, 3.8 miles above, on downstream side and river end of upstream stone abutment of CM&StP Ry bridge 546K		
3 feet below track, 8 feet toward river from center	•	D11 500
square cut (U.S.C.E.t.b.m. 27, R. B)		Bull. 569 USGS
Lansing, Mississippi river, low waterLansing, Mississippi river, high water	. G612 . G632	Miss. Riv. Com. Miss. Riv. Com.
Lansing	. G632	Weather Bur.
LanyonLa Porte City	817.G812	FtDDM&S CRI&P
La Porte City, north end of wye, subgrade Larchwood	. 816.84	WCF&N CRI&P
Larchwood	G1465	Weather Bur.
Larrabee  Latimer		IC M&StL
Latty, union station with CRI&P	. 725	CB&Q
Laurel		CRI&P M&StL
Laurens, crossing CRI&P		C&NW C&NW
Laurens	-1303,G1303	CRI&P
Laurens, crossing C&NW		CRI&P CM&StP
Lawler	.1084,G1088	CM&StP
Lawn Hill	. 1080	C&NW

	ELEVATION	
Station	$\mathbf{F}\mathbf{E}\mathbf{E}\mathbf{T}$	AUTHORITY
Lawton	1170	C&NW
Leando, see Douds	E07	CD&O
Le Claire, DRI&NW station	58 <b>7</b> 590	${ m CB\&Q} \ { m CM\&StP}$
Le Claire	586.13	CD&M
	<b>G</b> 580	DRI&NW
Le Claire, Union StationLe Claire, Mississippi river, low water	G562	Miss. Riv. Com.
Le Claire, Mississippi river, high water	G576	Miss. Riv. Com.
Le Claire	G576	Weather Bur.
Le Claire, 0.8 mile below Hampton, Ill., 0.5 meter west of		
east wagon road fence and 0.5 meter south of east-west		
line through center of sec. 13, T. 78, R. 4 E., 100 meters		
line through center of sec. 13, T. 78, R. 4 E., 100 meters south of Mr. Dodd's house, 170 meters south of Pigeon		
Creek, near foot of bluffs; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 152/4):	F00.4F	TO 11 700
Copper bolt	588.47	Bull. 569
Cap on pipe Le Claire, 100 meters above mouth of Spencer creek, oppo-	592.49	
site point midway between red barn and white house in		
welput grove on left hank 10 meters above road run-		,
walnut grove on left bank, 10 meters above road running back to farmhouse on bluff; highest point of large		
sandstone rock (U.S.C.E.t.b.m. 6 R. B)	562.23	Bull. 569
Le Claire, lower edge of, 1 meter west of east right of way	0	
fence of railroad, 325 meters above bridge 370 over		
fence of railroad, 325 meters above bridge 370 over Barber creek, on line of fence dividing lots owned by		
James Clark and George Cooley, 0.5 mile below Port		
Byron, Ill., 10 meters E. 4° to east end of north abut-		
ment of bridge 468; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 154/2):	F00 F0	70 11 700
Copper boltCap on pipe	583.72	Bull. 569
Le Claire, near NE. cor. Louis Schworm's house on Dodge	587.74	
St., SW. cor. alley between Main St. and Wisconsin Ave.;		,
copper bolt leaded horizontally in east face of stone		
porch 1 foot above ground, 8 inches from NE. cor. porch		
and 2.6 feet from top of porch, marked "M.R.C.U.		
and 2.6 feet from top of porch, marked "M.R.C.U.O S.B.M." (U.S.C.E.b.m. 154/3):	601.00	Bull. 569
Le Claire, on SE. cor. old frame warehouse between river		
and rear of building, 1 block north of Becker's store (U.S.C.E. high-water mark of 1870)		,
(U.S.C.E. high-water mark of 1870)	573.81	Bull. 569
Ledyard	1150	C&NW
Leeds, platform	1108	GN
Leeds, crossing 10	1111	GN
Leeds Lees Siding	868	IC CRI&P
Le Grand		C&NW
Lehigh '	945	FtDDM&S
Lehigh	956.0	CGW
Lehigh, T. 87 N., R. 28 W., cor. secs. 1, 2, 11 and 12, T.	_	Odii
road N., 40 II. NE, of road fork, in base of corner tence		
post, marked "1,112"; spike	1,112.13	USGS
post, marked ''1,112''; spike		
CGW RR 70 ft NW of road fork on N side of main		
road leading W., 15 ft. N. of fence, in root of 12-inch		
road leading W., 15 ft. N. of fence, in root of 12-inch elm tree, marked "947.8"; copper nail and washer	947.93	USGS
Lehigh, at highway bridge over Des Moines river, at W.		
end of bridge, 1.5 ft. N. of edge of flooring and 0.5 ft.		
tablet stamped "Towa 1010 054";	953.627	USGS
lower than same, in top of concrete abutment; bronze tablet stamped "Iowa 1919 954"	933.500	USGS
Lehigh, 0.50 mile NE. of, top of hill and T road S., 35 ft. S.		0.000

# LEHIGH-LEIGHTON

Contracts	ELEVATION	A TIMITORIME
STATION	FEET	AUTHORITY
of road fork, on E. side of road leading S., 15 ft. N. of fence corner, in base of telephone pole, marked		TT 0 0 0
"1,103.5"; spike	1,103.59	USGS
Lehigh, 0.71 mile NE. of, at T road E., 40 ft. SW. of road fork, in concrete base of fence post, marked "1,111.8";		77000
chiseled square Lehigh, T. 87 N., R. 27 W., cor. secs. 5, 6, 7 and 8, at T	1,111.96	USGS
road N., 30 ft. NW. of road fork, 3 ft. S. of fence cor.,		
in base of telephone pole, marked "1,107.8"; spike	1,107.95	USGS
Lehigh, Tps. 87 and 88 N., R. 27 W., cor. of secs. 4, 5, 32	,	
and 33, 45 feet NW. of center of crossroads, 3 ft. east	1 002 604	TTGGG
of fence cor.; iron post stamped "Iowa 1919 1,094" Lehigh, T. 87 N., R. 27 W., cor. secs. 4, 5, 8 and 9, 50 feet	1,093.624	USGS
NW. of center of crossroads, 12 feet west of fence		
corner, on fence line, on north side of road, in root of		
large maple tree, marked "1,105.7"; copper nail and	1 105 50	TTGGG
washer Lehigh, T. 87 N., R. 27 W., quarter cor., south side of sec.	1,105.53	USGS
5, 50 feet NW. of center of road fork, in base of corner		
fence post, marked '1,097.5'; spike	1,097.30	USGS
Lehigh, T. 87 N., R. 27 W., quarter cor., south side of sec.		
8, at section line crossing road, on west side of road, on section and fence line, in base of large gate post,		
marked '1,104.5''; spike	1,104.31	USGS
Lehigh, T. 87 N., R. 27 W., same loc. as above, pavement	,	
leading to E. L. Woodle's residence, point just outside	1 104 00	TTOOO
of gate on NE. edge (not a B.M.), marked "1,104.4" Lehigh, 2 miles east by 1 mile south of, at schoolhouse, at	1,104.23	USGS
front end of, 2 feet from east edge of; bronze tablet		
stamped ''Iowa 1919 1,081''	1,081.238	USGS
Lehigh, 1 mile south by 2.5 miles east of, T. 87 N., R. 27		
W., S. line sec. 16, at old ford across Des Moines river, on west bank of river where it flows north, 50 feet south		
of ford, in base of 2-foot oak tree, marked "931.6";		
spike	931.37	USGS
Lehigh, 1 mile south by 2.5 miles east of, at old ford across		
Des Moines river, on east bank of river, where it flows		
north, 120 feet south of ford, 20 feet west of road and 10 feet east of water's edge, in root of 12 inch elder tree,		
marked "928.5"; copper nail and washer	928.30	USGS
Elevation of water level at this point (high water),		
June 9, 1919	925.000	USGS
Lehigh, T. 87 N., R. 27 W.; quarter cor., north side of NW. quarter sec. 33, at T road north, 50 feet NW. of road		
fork, in base of telephone pole, marked "1,120.7"; spike	1,120.48	USGS
Lehigh, T. 87 N., R. 27 W., cor. of secs. 28, 29, 32 and 33,		
T road south, 50 feet NW. of road fork, in base of	1 100 00	TTGGG
telephone pole, marked "1,123.1"; spike Leighton, B.M. top of monument M.P. 308	$1{,}122.89$ $751.58$	USGS CRI&P
Leighton, B.M. top of monument M.P. 309	758.94	CRI&P
Leighton, top of rail, center of depot	765.5	CRI&P
Leighton, B.M. top of monument M.P. 310	766.14	CRI&P
Leighton, B.M. top of monument M.P. 311 Leighton, B.M. top of monument M.P. 312		$\begin{array}{c} \text{CRI\&P} \\ \text{CRI\&P} \end{array}$
Leighton, B.M. top of monument M.P. 313	792.49	CRI&P
Leighton, T. 76 N., R. 17 W., center of sec. 26, crossroads,		
in corner fence post; three 40-penny nails	848.67	Bull. 569
Leighton, T. 76 N., R. 17 W., quarter corner on east side of sec. 25, on stone at intersection of crossroads; painted		
square	842.51	Bull. 569
Leighton, T. 76 N., R. 17 W., 0.25 mile north of SW. cor.		

	ELEVATION	
STATION	FEET	AUTHORITY
sec. 19, T corner; iron post stamped "Prim. Trav. Sta. No. 8, Iowa 1908, 813"	811.246	D1) 560
Leighton, T. 76 N., R. 17 W., 0.2 mile west of SE, cor, sec.	811.240	Bull. 569
Leighton, T. 76 N., R. 17 W., 0.2 mile west of SE. cor. sec. 1, in projecting knob of base of 14-inch oak tree; 40-		
penny nail: T corner	796.01	Bull. 569
Leighton, T. 76 N., R. 17 W., 0.3 mile west of SE. cor. sec. 13, T corner, on west side of road, 40 feet north of center		
of road; iron post stamped "735 Iowa"	733.317	Bull. 569
of road; iron post stamped ''735 Iowa''. Leighton, T. 76 N., R. 17 W., SW. cor. sec. 15, on east side		
of road, 17 feet southeast of road intersection, 10 feet		D.11 500
south of corner fence post; crossroads Leighton, 0.5 mile east of, railway crossing; top of rail	$840.341 \\ 758.13$	Bull. 569 Bull. 569
Leighton, quarter corner on south side of sec. 35, T. 76 N.,		Dam oor
R. 17 W., west side of road, 50 feet north of railroad; iron post stamped "761 Iowa"	770 107	70 11 740
Leland	759.497 1218 G1217	Bull. 569 M&StL
Le Mars, junction switch with IC	1232.6	CStPM&O
Le Mars, union station	1234,G1232	IC
Le Mars, junction with CStPM&O	1233,G1232	IC
Lena		Weather Bur. M&StL
Lenox	1295,G1293	CB&Q
Lenox		Weather Bur.
Leon Leon, Des Moines line		CB&Q CB&Q
Le Roy	1113.G1112	CB&Q
Leroy, Minn.	1286.G1285	${f CM\&StP}$
Leroy, Minn. 19 Leroy, Minn., crossing CM&StP 12	283.1,G1282	CGW
Leslie	1177	$^{ m CGW}$
Lester	1379	GN
Lester, crossing CRI&P	1373	GN
Letts		CRI&P CRI&P
Letts, divide, 2 miles east of		CRI&P
LeverettLeverett, crossing CM&StP	1365,G1363	CRI&P
Leverett, crossing CM&StP	1381	CRI&P
Levey, 0.5 mile north of, 6 miles below Des Moines, top of	782,6782	CB&Q
east side of concrete pier at north end of CB&Q BR bridge over Des Moines river (U.S.C.E.b.m. 57) (de-		
stroved)	789.92	Bull. 569
Levey, 15 feet west of road, 175 feet NW. of E. S. Irwin's house; iron post stamped "Prim. Trav. Sta. No. 7, 782 Adj 1903".	•	
house; iron post stamped "Prim. Trav. Sta. No. 7,	700 515	Bull. 569
Lewis	780.515 1154 <sub>-</sub> G1157	CRI&P
Lewis, bed of Spring creek west of	1080	IaGS
Lewis, bed of Nishnabotna river below dam at	1093	IaGS
Lewis, crest of hill at Lewis, base of sandstone on Spring creek, west of	$\frac{1208}{1102}$	IaGS IaGS
Liberty Center, Warren Co., T. 74 N., R. 23 W., NW. cor.	1102	1400
sec. 3, moved 100 feet west of point, 30 feet south by 60		
feet east of crossroads, in limestone rock; aluminum		•
tablet stamped "Prim. Trav. Sta. No. 6 937 Adj" set in 4 by 4 inch concrete post	932.253	Bull. 569
in 4 by 4 inch concrete postLiberty Center, T. 74 N., R. 23 W., NE. cor. sec. 3, in SW.	002.200	Dan. 600
cor. T road south, in top of west end of plank culvert;		
copper nailLiberty Center, T. 74 N., R. 23 W., SE. cor. sec. 3, in NW.	935.80	Bull. 569
cor. crossroads, 2 feet west of corner post; iron post		
stamped ''Iowa 934, 1913''	933.865	Bull. 569

STATON   Sec. 27, at N., R. 23 W., at NW. cor. sec. 25, in SE. cor. crossroads, in root on west side of twin maple tree; copper nail.   1,016.45   1,016	:	ELEVATION	
SE. cor. crossroads, in root on west side of twin maple tree; copper nail   1,016.45		FEET	AUTHORITY
east side sec. 27, at SW. cor. crossroads, 7 feet south of telephone pole; iron post stamped "Iowa, 1021, 1913" 1,021.180  Liberty Center, 1 mile east of, T. 74 N., R. 23 W., at SW. cor. sec. 14, in NE. angle of crossroads, 5 feet NE. of section corner, in root of 14-inch cottonwood tree; copper nail  Liberty Center, T. 74 N., R. 23 W., at NW. cor. sec. 14, in SEE. angle of crossroads, 5 feet north of corner post, in stump of telephone pole; copper nail.  Liberty Center, T. 74 N., R. 23 W., at SE. cor. sec. 3, in NW. cor. crossroads, 2 feet west of corner post; iron post stamped "Iowa, 934, 1913" 933.865  Libertyville, crossing CB&Q 754  Libertyville, crossing CB&Q 754  Libertyville, crossing CB&Q 754  Libertyville, crossing CB&P 754  Lida 854,9389 CGW  Lida North river at 840  Lidda 932,9332  Lime Kilns 710  CB&Q  Limb Springs 1246,61245  Limb Springs 1246,61245  Limby, crossing CM&StP 810.8  Linby Crossing CM&StP 810.8  Linby, crossing CB&Q 815  Lincoln 1059,4,61059  Cap on pipe 1256,61257  Linhy, crossing cB&Q 1256,61257  Linhy, crossing cB&Q 1256,61257  Linhy, crossing cB&Q 1256,61257  Linhy, crossing cB&Q 1564  Linn Grove 1256,71257  Lisbon 100,25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):  Copper bolt 562,9  Cap on pipe 562,9  Listle Rock, 1 mile west of 1505  Liscomb 100,6698  Little Rock, 1 mile west of 1505  Livermore 1132,61134  Livermore 1132,61134  Livermore 1132,61136  Livermore 1132,61136  Livermore 1132,61136  Livermore 1132,61136  Livermore 1132,61136  CRI&P  CRI&P  CREAP  CREAP	SE. cor. crossroads, in root on west side of twin maple	1 016 45	Dull 560
telephone pole; iron post stamped "Iowa, 1021, 1913" 1,021.180 Liberty Center, 1 mile east of, T. 74 N. R. 23 W., at SW. cor. sec. 14, in NE. angle of crossroads, 75 feet NE. of section corner, in root of 14-inch cottonwood tree; copper nail Liberty Center, T. 74 N., R. 23 W., at NW. cor. sec. 14, in SE. angle of crossroads, 5 feet north of corner post, in stump of telephone pole; copper nail Liberty Center, T. 74 N., R. 23 W., at SE. cor. sec. 3, in NW. cor. crossroads, 2 feet west of corner post; iron post stamped "Iowa, 934, 1913" 933.865 Libertyville Libertyville, crossing CE&Q Libertyville, crossing CR&Q Libertyville, crossing CR&Q Lida, North river at Lidderdale Lidderdale Lime Kilns Lime Kilns Lime Springs Lime Kilns Lime Springs Lime Springs Linoy Linoy Linoy Linoy Linoy Linoy Linoy Linoy Linowl, crossing CB&Q Linoy Linowl, crossing CB&Q Linoy Linowl, crossing CB&Q Linowl,	Liberty Center, T. 74 N., R. 23 W., at quarter corner on	1,010.45	Dun. 509
Liberty Center, 1 mile east of, T. 74 N., R. 23 W., at SW. cor. sec. 14, in NE. angle of crossroads, 75 feet NE. of section corner, in root of 14-inch cottonwood tree; copper nail	east side sec. 27, at SW. cor. crossroads, 7 feet south of telephone pole: iron post stamped "Iowa, 1021, 1913"	1.021.180	Bull, 569
Section corner, in root of 14-inch cottonwood tree; copper nail   1,014.23   1,014.24	Liberty Center, 1 mile east of, T. 74 N., R. 23 W., at SW.	_,	
Liberty Center, T. 74 N., R. 23 W., at NW. cor. sec. 14, in SE. angle of crossroads, 5 feet north of corner post, in stump of telephone pole; copper nail	section corner, in root of 14-inch cottonwood tree; cop-		
SE. angle of crossroads, 5 feet north of corner post, in stump of telephone pole; copper nail	per nail	1,014.23	Bull. 569
Liberty Center, T. 74 N., R. 23 W., at SE. cor. sec. 3, in NW. cor. crossroads, 2 feet west of corner post; iron post stamped "Iowa, 934, 1913" 933.865   Libertyville	SE. angle of crossroads, 5 feet north of corner post, in	1 010 64	D-11 560
NW. cor. crossroads, 2 feet west of corner post; iron post stamped "Iowa, 934, 1913"   933.865   Libertyville   754   CRI&P   Libertyville   754   CRI&P   Libertyville   753   CB&Q   Libertyville   753   CB&Q   Libertyville   753   CB&Q   Libertyville   753   CB&Q   Lida   854.9,6849   Lida   854.9,6849   Lida   North river at   840   LaGS   Lida   1236.5,61244   CGW   Lima   932,6933   CM&StP   Lime Kilns   710   CRI&P   CRI&P   Lime Kilns   710   CRI&P   Lime Kilns   710   CRI&P   CM&StP   Linby, crossing CM&StP   810.8   CB&Q   CB&Q   Linby   S15,6817   CM&StP   CM&St	Liberty Center, T. 74 N., R. 23 W., at SE, cor. sec. 3, in	1,013.04	вш. 509
Libertyville, crossing CB&Q	NW. cor. crossroads, 2 feet west of corner post; iron	022 865	Pull 560
Libertyville, crossing CB&Q   754   CRL&P	Libertyville		
Lida         753         CB&Q           Lida         854.9,6849         CGW           Lida, North river at         840         LaGS           Lida         932,6933         CM&StP           Lime         CRIMS         CRIMS           Lime         S10.8         CB&Q           Linby, crossing CM&StP         815,6817         CM&StP           Linby, crossing CB&Q         815,6817         CM&StP           Linby, crossing CM&StP         815,6817         CM&StP           Linby         1124,61126         CM&StP           Linby         1134,61126         CM&StP           Linbo,         1134,61126         CM&StP           Linbo,         1134,61126         <	Libertyville, crossing CB&Q		
Lida         854.9(3849)         LaGS           Lidac North river at         932.6933         CM&StP           Lime         1236.5(31244)         CGW           Lime         Springs         710         CRI&StP           Lime Springs         1246,G1245         CM&StP           Linby, crossing CM&StP         810.8         CB&Q           Linby, crossing CB&Q         815         CM&StP           Lincoln         1059.4,G1059         CGW           Linden         1124,G1126         CM&StP           Linden         1124,G1126         CM&StP           Lineville         1084         CRI&P           Linn         749,G756         CRI&P           Linn Grove         1256,G1257         C&NW           Linnwood, union station with CRI&P         564         CRI&P           Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24,         2 meters north of north fence on Davenport road, 20         ERI&P           Liscomb         873,G873         C&NW           Liscomb         1004,G997         M&StL           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         Schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569 <td< td=""><td>Libertyville crossing CRI&amp;P</td><td></td><td></td></td<>	Libertyville crossing CRI&P		
Lida North river at   1236,5G1244   CGW	Lida8		
Lime         Hime         932,6933         CM&8tP           Lime         Springs         1246,61245         CM&8tP           Limby, crossing         CM&8tP         810.8         CB&Q           Linby         815,6817         CM&8tP           Linby, crossing         CB&Q         CM&8tP           Linby         815         CM&8tP           Linby         1059,4,61059         CM&8tP           Lincoln         1059,4,61059         CGW           Linden         1124,61126         CM&8tP           Lineville         1084         CRI&P           Lineville         1084         CRI&P           Linn         749,6756         CRI&P           Linn         749,6756         CRI&P           Linn         749,6756         CRI&P           Linwood, union station with CRI&P         564         CRI&P           Linwood, 0.25 mile above hotel at, 1 meter east of west         Fence of road on section line dividing secs. 23 and 24,         Bull. 569           Linwood, 0.25 mile above hotel at, 1 meter east of west         565         Bull. 569           Cap on pipe         562,97         CRI&P           Liscom         562,97         SA           Liscom         873,	Lida, North river at	840	
Lime Kilns         710         CR1&P           Lime Springs         1246,G1245         CM&StP           Linby, crossing CM&StP         810.8         CB&Q           Linby, crossing CB&Q         815         CM&StP           Lincoln         1059,4,61059         CM&StP           Lincoln         1124,G1126         CM&StP           Lincoln         1124,G1126         CM&StP           Lincoln         126,61257         CRI&P           Lineville         1084         CRI&P           Linn Grove         1256,G1257         C&NW           Linmood, union station with CRI&P         564         CRI&P           Linwood, union station with CRI&P         564         CRI&P           Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):         Bull. 569           Cap on pipe         562.97         S.           Lisbon         873,G873         C&NW           Listeleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         Schoolhouse yard; iron post stamped "929 DBQ" 930.628         Bull. 569           Little Rock, 1 mile west of         1505         IagS           Livermore         <			
Lime Springs         1246,61245         CM&StP           Linby, crossing CM&StP         810.8         CB&Q           Linby, crossing CB&Q         815         CM&StP           Lincoln         10594,61059         CM&StP           Lincoln         10594,61059         CGW&StP           Lincoln         10594,61126         CM&StP           Linden         1124,61126         CM&StP           Lineville         1084         CRI&P           Linn Grove         1256,61257         C&NW           Linwood, union station with CRI&P         564         CRI&P           Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):         S58.96         Bull. 569           Cap on pipe         562.97         S62.97         Bull. 569           Lisbon         873,6873         C&NW           Listeleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor. schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Little Rock, 1 mile west of         1505         IAGS           Livermore         1132,G1134         M&StL           Livermore, crossing M&StL         1131         CRI&P <td></td> <td></td> <td></td>			
Linby, crossing CM&StP	Lime Springs	1246,G1245	
Linby, crossing CB&Q	Linby crossing CM&StP	810.8	
Lincoln         1059.4,G1059         CGW           Linewille         1124,G1126         CM&8tP           Line ville         1084         CRI&P           Linn         749,G756         CRI&P           Linn Grove         1256,G1257         C&NW           Linwood, union station with CRI&P         564         CM&8tP           Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):         Bull. 569           Cap on pipe         562.97           Lisson         873,G873         C&NW           Listeemb         1004,G997         M&8tL           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor. schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         LaGS           Livermore         1132,G1134         M&StL           Livermore, crossing M&StL         1131         CRI&P           Logan         1036,G1033         IC           Logan         1036,G1033         IC           Logan         1033         C&NW <t< td=""><td>Linby</td><td>815,0817</td><td></td></t<>	Linby	815,0817	
Linden	Lincoln	59.4.G1059	
Lineville			
Linn Grove         1256,G1257         C&NW           Linwood, union station with CRI&P         564         CM&StP           Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):         S58.96         Bull. 569           Cap on pipe         562.97         Lisbon         873,G873         C&NW           Listeomb         104,G997         M&StL         Little Cedar         1181.0         CGW           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor. schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore, crossing M&StL         1131         CRI&P           Livermore, crossing M&StL         1131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1033         C&NW           Lopan         1033         C&NW           Lohrville         1138.4,G1144         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW <td></td> <td></td> <td></td>			
Linwood, union station with CRI&P			
Linwood   565   CRI&P	Linu Grove		
Linwood, 0.25 mile above hotel at, 1 meter east of west fence of road on section line dividing secs. 23 and 24, 2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):  Copper bolt 558.96 Cap on pipe 562.97  Lisbon 873,G873  C&NW Liscomb 1004,G997  M&StL Little Cedar 1181.0  CGW  Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor. schoolhouse yard; iron post stamped "929 DBQ" 930.628 Littleport 700,G698  Little Rock 1477  Little Rock 1477  Little Rock, 1 mile west of 1505  Livermore 1132,G1134  M&StL Livermore 1142,G1136  CRI&P Livermore, crossing M&StL 1131  Livermore, crossing M&StL 1131  Lockridge 729,G732  CB&Q  Logan 1033  C&NW  Lohrville 1148.3,G1155  CGW  Lohrville, crossing C&NW 1138.4,G1144  CGW			
2 meters north of north fence on Davenport road, 20 meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):       558.96       Bull. 569         Copper bolt	Linwood, 0.25 mile above hotel at, 1 meter east of west		
meters from river bank; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 147/3):         Copper bolt         558.96         Bull. 569           Cap on pipe         562.97         Lisbon         873,G873         C&NW           Liscomb         1004,G997         M&StL         Little Cedar         1181.0         CGW           Little Cedar         1281.0         CGW         Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Little Rock         1477         CRI&P         CRI&P         Little Rock, I mile west of         1505         IaGS         Livermore         1132,G1134         M&StL         Livermore         1142,G1136         CRI&P         CRI&P         Livermore, crossing M&StL         1131         CRI&P         CRI&P         Lockridge         729,G732         CB&Q         CB&Q         Logan         1033         C&NW           Logan         1033         C&NW         Lohrville         1138,4,G1155         CGW           Lohrville         1038,2,G1144         CGW			
by iron pipe (U.S.C.E.b.m. 147/3):  Copper bolt 558.96 Cap on pipe 562.97  Lisbon 873,G873 C&NW  Liscomb 1004,G997 Little Cedar 1181.0 CGW  Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor. schoolhouse yard; iron post stamped "929 DBQ" 930.628 Littleport 700,G698 CM&StP Little Rock 1477 CRI&P Little Rock, 1 mile west of 1505 Livermore 1132,G1134 Livermore 1142,G1136 CRI&P Lokridge 729,G732 CB&Q Logan 1036,G1033 Lohrville 1148.3,G1155 CGW Lohrville, crossing CM&StP 1138.4,G1144 CGW Lohrville, crossing C&NW 1138.3,G1144 CGW			
Copper bolt         558.96         Bull. 569           Cap on pipe         562.97           Lisbon         873,G873         C&NW           Liscomb         1004,G997         M&StL           Little Cedar         1181.0         CGW           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         schoolhouse yard; iron post stamped ''929 DBQ''         930.628         Bull. 569           Littleport         700,G698         CM&StP           Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore, crossing M&StL         131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	by iron pipe (U.S.C.E.b.m. 147/3):		
Lisbon         873,G873         C&NW           Liscomb         1004,G997         M&StL           Little Cedar         1181.0         CGW           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Littleport         700,G698         CM&StP           Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore, crossing M&StL         1131         CRI&P           Livermore, crossing M&StL         131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	Copper bolt		Bull. 569
Liscomb         1004,G997         M&StL           Little Cedar         1181.0         CGW           Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.         schoolhouse yard; iron post stamped "929 DBQ"         930.628         Bull. 569           Littleport         700,G698         CM&StP           Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore         1142,G1136         CRI&P           Livermore, crossing M&StL         131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW			CIO ATTOT
Little Cedar       1181.0       CGW         Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.       930.628       Bull. 569         Littleport       700,G698       CM&StP         Little Rock       1477       CRI&P         Little Rock, 1 mile west of       1505       IaGS         Livermore       1132,G1134       M&StL         Livermore, crossing M&StL       1131       CRI&P         Lokridge       729,G732       CB&Q         Logan       1036,G1033       IC         Lopan       1148.3,G1155       CGW         Lohrville       1138.4,G1144       CGW         Lohrville, crossing C&NW       1138.3,G1144       CGW			
Littleport, T. 92 N., R. 4 W., SW. ¼ sec. 16, in SE. cor.       schoolhouse yard; iron post stamped "929 DBQ"       930.628       Bull. 569         Littleport       700,6698       CM&StP         Little Rock       1477       CRI&P         Little Rock, 1 mile west of       1505       IaGS         Livermore       1132,G1134       M&StL         Livermore, crossing M&StL       1131       CRI&P         Lockridge       729,G732       CB&Q         Logan       1036,G1033       IC         Lopan       1033       C&NW         Lohrville       1148.3,G1155       CGW         Lohrville, crossing CM&StP       1138.4,G1144       CGW         Lohrville, crossing C&NW       1138.3,G1144       CGW	Little Cedar		
schoolhouse yard; iron post stamped "929 DBQ"       930.628       Bull. 569         Littleport       700,6698       CM&StP         Little Rock       1477       CRI&P         Little Rock, 1 mile west of       1505       IaGS         Livermore       1132,G1134       M&StL         Livermore, crossing M&StL       1131       CRI&P         Lokridge       729,G732       CB&Q         Logan       1036,G1033       IC         Logan       1033       C&NW         Lohrville       1148.3,G1155       CGW         Lohrville, crossing CM&StP       1138.4,G1144       CGW         Lohrville, crossing C&NW       1138.3,G1144       CGW	Littleport, T. 92 N., R. 4 W., SW. 1/4 sec. 16, in SE. cor.		
Little Rock         1477         CRI&P           Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore         1142,G1136         CRI&P           Livermore, crossing M&StL         1131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	schoolhouse yard; iron post stamped "929 DBQ"	930.628	
Little Rock, 1 mile west of         1505         IaGS           Livermore         1132,G1134         M&StL           Livermore         1142,G1136         CRI&P           Livermore, crossing M&StL         1131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW			
Livermore         1132,G1134         M&StL           Livermore         1142,G1136         CRI&P           Livermore, crossing M&StL         1131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	Little Rock 1 mile west of	1505	
Livermore         1142,G1136         CRI&P           Livermore, crossing M&StL         1131         CRI&P           Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	Livermore	1132,G1134	
Lockridge         729,G732         CB&Q           Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW	Livermore	1142,G1136	
Logan         1036,G1033         IC           Logan         1033         C&NW           Lohrville         1148.3,G1155         CGW           Lohrville, crossing CM&StP         1138.4,G1144         CGW           Lohrville, crossing C&NW         1138.3,G1144         CGW			
Logan       1033       C&NW         Lohrville       1148.3,G1155       CGW         Lohrville, crossing CM&StP       1138.4,G1144       CGW         Lohrville, crossing C&NW       1138.3,G1144       CGW			
Lohrville       1148.3,G1155       CGW         Lohrville, crossing CM&StP       1138.4,G1144       CGW         Lohrville, crossing C&NW       1138.3,G1144       CGW			
Lohrville, crossing C&NW1138.3,G1144 CGW	Lohrville11	48.3,G1155	
Lohrville	Lohrville, crossing CM&StP	138.4,G1144	
	Lohrville	1155	

	ELEVATION	
STATION	FEET	AUTHORITY
Lohrville, crossing CM&StP	1142	C&NW
Tohrville	145.G1149	CM&StP
Lohrville, crossing C&NW	l143,G1146	CM&StP
Lone Rock	1210	C&NW
Lone Tree	707	CRI&P
Long Grove	782	CM&StP
Long Point	804	C&NW
Lorah	747	CB&Q CRI&P
Lorah, creek bed east of	1184	IaGS
Lorimor12	30.5 G1227	CGW
Lost Nation	741.G744	CM&StP
Lothrop		CRI&P
Louisa	819,G814	CM&StP
Louisa, crossing over IC, CM&StP track	815,G812	CM&StP
Louisa, crossing, IC track	G789	CM&StP
Louisa, crossing over WCF&N	815	CM&StP
Loveland		C&NW
Loveland, crossing under IC	1001	C&NW
Loveland, on SW. cor. bridge 979 over Boyer river, 0.3 foot		
east of bedplate under inclined end post, 2.5 feet from north edge of abutment; copper bolt in stone (U.S.C.E.		
p.b.m. 356)	1,000.119	Bull. 569
Lovilia9		CB&Q
Lovilia	932	WRR
Lovilia, T. 73 N., R. 18 W., near center SE. 1/4 sec. 23, 280		
feet south of T road east, on west side of highway, in		
top center of concrete headwall to culvert under road;		
chiseled square, painted "U.S.B.M. 943.9"	943.79	$\mathbf{usgs}$
Lovilia, T. 73 N., R. 18 W., center of sec. 23, in SE. angle		
of road forks, 4 feet east of corner fence post, in top of		
concrete post; bronze tablet stamped "E.B. No. 6 1924		TT 0 0 0
Iowa'' painted "U.S.P.B.M. 931.0".	930.897	USGS
Lovilia, reference mark, 120 feet north by 50 feet west of tablet, 20 feet east of house, in root on east side of a 2-		
foot maple tree; copper nail and washer	931.97	USGS
Lovilia, T. 73 N., R. 18 W., near NE. cor. sec. 23, 1,800	901.97	abau
feet NE. of switch to coal mine, on NE. cor. small		
trestle over small drain, along C&NW RR; on large		
bolt-head with chiseled cross, painted "U.S.B.M. 863.1"	863.00	USGS
Lovilia, T. 73 N., R. 18 W., near center of sec. 13, 230 feet.		
north of road crossing C&NW Ry, in top center of east		
headwall to concrete bridge over small creek; chiseled		
square, painted "U.S.B.M. 828.9"	828.77	${f USGS}$
Lovilia, T. 73 N., R. 17 W., near SW. cor. sec. 7, 110 feet		
south by 40 feet east of road crossing C&NW Ry, in		
NW. cor. of timbered pasture, in root on NW. side of a		
2.5-foot oak tree; copper nail and washer, painted "U. S.B.M. 809.4"	000.07	TTCCC
Lovilia, T. 73 N., Rs. 17 and 18 W., cor. secs. 1, 7, 6 and	809.27	USGS
12, in NW. angle of crossroads, 5 feet north by 0.5 foot		
east of corner fence post: top of 0.75-inch gas nine		
east of corner fence post; top of 0.75-inch gas pipe driven in ground, painted "U.S.B.M. 918.0"	917.95	USGS
Lowden	717.G717	C&NW
Low Moor	640.G643	C&NW
Luana	1123.G1128	CM&StP
Lucas88	5.69,G888	$^{\mathrm{CB}\&\mathrm{Q}}$
Lucas, T. 72 N., R. 23 W., at quarter corner, on north side	•	· ·
of sec. 11, in SW. angle of crossroads, 1 foot south of		
corner post, in top of wooden peg; wire nail	1,044.64	Bull. 569
Lucas, 0.5 mile west by 0.5 mile north of, T. 72 N., R. 23		

Cmamroar	ELEVATION FEET	A TOTAL OPINA
STATION  W., at center of sec. 14, at center of crossroads, in top	FEET	AUTHORITY
of rock presumed to be section stone; bottom of square		
cut	970.89	Bull. 569
Lucas, in front of CB&Q RR station; top of rail	888.98	Bull. 569
Lucas, near center of town, at SW. cor. Leehart's drug store; iron post stamped "Iowa, 895, 1913"	895.010	Bull. 569
Lucas, 0.8 mile east of, at NE. angle of T road north, in	0001020	Daw.
top of sandstone rock 5 feet north of corner post; bot-		
tom of chiseled square	892.21 878.5	Bull. 569 Bull. 569
Lucas, 1 mile east of, CB&Q RR crossing, top of rail Lucas, Whitebreast creek; water elevation, 11 a.m., July	010.0	Dun. 509
31, 1913, ''854.2''	854.3	Bull. 569
Lucas, 1.8 miles east of, at SW. angle of T road south,		
100 feet south of corner post, driven flush with ground;	867.35	Bull. 569
iron rod, 11 inches long  Lucas, T. 72 N., R. 22 W., near NE. cor. sec. 30, at NE. angle of crossroads, 2 feet north of corner post; iron	001.00	Dan. 000
angle of crossroads, 2 feet north of corner post; iron		
post stamped 'Iowa 1044, 1913''	1,043.891	Bull. 569
Lucas, T. 72 N., R. 22 W., about 1,000 feet west of the SE. cor. sec. 20, at NE. cor. bridge over creek, in plank;		
copper nail	889.35	Bull. 569
Lundgren, B.M. pole No. 1735	1142.81	${ t FtDDM\&S}$
Lundgren, T. 87 N., Rs. 28 and 29 W., cor. secs. 6, 7, 1 and 12, at T road south, 50 ft. SW. of road fork, on con-		
crete base of corner fence post, marked "1,137.6";		
chiseled point	1,137.63	USGS
Lundgren, T. 87 N., R. 28 W., cor. secs. 5, 6, 7 and 8, 30		
ft. SE. of center of crossroads, on top of steel sewer,	1,126.12	USGS
marked ''1,126''; cross mark	1,120.12	apao
ft. SW. of center of crossroads, 1.5 ft. N. of fence line;		
iron post stamped "Iowa 1919 Prim. Trav. Sta. No. 8	1 100 700	TTGCG
1,123,	1,122.728	USGS
14, 70 feet north by 30 feet west of center of cross-		
roads, in field along fence line, 20 feet north of fence		
corner, in top of large granite bowlder; chiseled square,	1,148.00	USGS
T.B.M. 1,148.1	1,148.00	abau
feet south of crossroads, on east side of road in con-		
crete front of schoolhouse 6 feet north of front door, 1.0		
foot west of wall and about 1 foot above ground; bronze tablet stamped ''Iowa 1919 1,148''		USGS
Lundgren, T. 87 N., R. 29 W., west sixteenth corner south		obab
side of sec. 4, at T road north, east side of T road and		
north side of east and west road, in base of corner fence	115106	TTGCG
post, marked "1,151"; spike	1,151.06	USGS
Lundgren. T. 87 N., R. 29 W., cor. secs. 3, 4, 9 and 10, 70 feet SW. of crossroads, 25 feet SW. of cor. of fence in		
school vard enclosure, in root of 18-inch maple tree.		~~~~
marked ''1,156.5''; copper nail and washer Lundgren, T. 87 N., R. 29 W., cor. secs. 2, 3, 10 and 11, 50	1,156.55	USGS
feet SW. of center of crossroads, in base of corner fence		
post, marked ''1,153.4''; spike	1,153.49	USGS
Lundgren, T. 87 N., R. 29 W., cor. secs. 1, 2, 11 and 12, 160		
feet south of crossroads, on east side of road in concrete front of schoolhouse, 6 feet north of front door, 16		
feet west of wall and about 1 foot above ground; bronze	)	19
tablet stamped "Iowa 1919 1,148	1,147.582	USGS
Lundgren, railway crossing at, 20 feet south of crossing, 5	5	**

	ELEVATION	
STATION feet west of track, in base of power transmission pole,	FEET	AUTHORITY
marked ''1,142.6''; spike	1,142.65	USGS
Lundgren, T. 87 N., R. 29 W., quarter cor., north side of	·	
sec. 1, at road crossing, 50 feet east of railway track, on south side of highway on fence line, in root of large		
maple tree marked '1,125.2'; copper nail and washer	1,125.24	USGS
Lundgren, T. 88 N., R. 29 W., quarter cor., north side of	,	
sec. 36, 30 feet south of railway crossing, 4 feet west of		
track, in base of power transmission pole, marked ''1,117.3''; spike	1,117.36	USGS
Luray9		CGW
Luther	1093,G1095	CM&StP
Luther, 2 miles south of, SW. cor. sec. 6, Garden Tp., at T road; spike in base of telephone pole, marked "1077.70"	1,076.37	Bull. 569
Luther, 1 mile south of, at T road, SW. cor. sec. 31, Colfax	1,010.01	. Dun. 000
Tp.; iron post stamped "1080"	1,078.397	Bull. 569
Luther, at road crossing, NE. cor. sec. 36, Worth Tp.; cop-	1 100 75	Bull. 569
per nail in root of maple treeLuther, 1 mile north of, at road crossing, SW. cor. sec. 19,	1,100.75	Buil. 509
Colfax Tp.; spike in base of telephone pole	1,097.79	Bull. 569
Luther, 2 miles north of, at road crossing, SE. cor. sec. 13,	1 104 505	D. II 500
Luther, 2 miles north of, at road crossing, SE. cor. sec. 13, Worth Tp.; iron post stamped ''1106'' Luther, 2 miles north by 1 mile west of, at road crossing,	1,104.565	Bull. 569
in sec. 23, Worth Tp.; spike in base of telephone pole	1,120.11	Bull. 569
Luther, 2 miles north by 3 miles west of, SW. cor. sec. 15,		
Worth Tp.; iron post stamped "Prim. Trav. Sta. No. 15, 1094"	1,092.664	Bull. 569
Luther, 1.5 miles north by 3 miles west of, at T road, in	1,092.004	Dun. 505
front of Gildea school, in sec. 22, Worth Tp.; copper nail in root of oak tree on east side of north-south highway		
	1,089.77	Bull. 569
Luverne	$1080 \\ 1167$	$rac{ ext{CM\&StP}}{ ext{C\&NW}}$
Luverne, crossing M&StL	1156	C&NW
Luverne	1168,G1169	M&StL
Luverne, crossing C&NW  Luxemburg, sec. 21, T. 90 N., R. 2 W., in Catholic church- yard, iron post stamped "1179 DBQ"	1156,G1156	M&StL
vard, iron post stamped "1179 DBQ"	1,180.636	Bull. 569
Luzerne	893,G897	C&NW
Lybrand, Allamakee Co., T. 96 N., R. 6 W., SW. cor. schoolhouse yard; iron post stamped "1186 DBQ"	1 105 651	D11 560
Lyle Minn	1,185.654 1203	Bull. 569 IC
Lyle, Minn	1205	IC
Lyle, Minn., crossing CGW	1208	IC
Lyle, Grossing IC	$1204 \\ 1201$	$\begin{array}{c} { m CM\&StP} \\ { m CM\&StP} \end{array}$
Lynnville	892	M&StL
Lynnville Junction	922	M&StL
Lyons C&NW Lyons, crossing C&NW	592,G589 592	$\begin{array}{c} { m CM\&StP} \\ { m CM\&StP} \end{array}$
Lyons	588	C&NW
Lyons, crossing CM&StP	589	C&NW
Lyons, 1 mile above, 30 meters above yard limits of CM&St		
P Ry, 12 meters west of that railroad company's tracks, on side of bluff near bottom, 1 meter east of fence, 5.5		
meters above fence corner, 100 meters below house of		
Peter Johnson; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 162/3):  Copper bolt	599.34	Bull. 569
Cap on pipe	603.38	Dan. 509
Cap on pipe		
from river bank, opposite center of Island 279, 200		

•	ELEVATION	
STATION	FEET	AUTHORITY
meters above head of small slough; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 164/2):		
Copper bolt	580.80	Bull. 569
Cap on pipe	584.80	~~~~
Lytton1	225,G1220	CM&StP
McCallsburg1	094,61089	M&StL
McCallsburg, crossing CRI&P	1089	M&StL
McCallsburg	1080 1080	CRI&P CRI&P
McCallsburg, crossing M&StL	610	CRI&P
McClains Park	862.81	DM&CI
McClelland		CGW
McCloy, M.P. 429	231 G1232	IC
McConville	965	ISU
McCook, S. Dakota	1111	CM&StP
McDanel	974	ISU
McGregor	627,G627	CM&StP
McGregor, 3.2 miles below, 0.5 mile below mouth of Wis-	,	
consin river, 1,968 feet below milepost 67 of CM&StP		
Ry, 45 feet west of center of track, directly opposite		
lower end of bridge K382, in which t.b.m. 231 is located,		
in steeply inclined face of hard ledge of rock, marked		
"U.S. P.B.M."; copper bolt (U.S.C.E.p.b.m. 238)	635.872	Bull. 569
McGregor, 0.5 mile below mouth of Wisconsin river, on		
south abutment of bridge K382, on river end of second		
course of stone from top, 1 foot from northeast corner of stone marked "U S"; highest point in square (U.		
of stone marked "ULS"; highest point in square (U.	COT EC1	D11 560
S.C.E.t.b.m. 231)	627.561	Bull. 569
directly opposite Pictured Rock, on right of way of		
CM&StP Ry, 35 feet east of center of track; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.p.b.m 236 and		
237):		
Copper bolt	627.771	Bull. 569
Cap on pipe	631.774	2021.000
McGregor, 1.8 miles below, 55 meters above milepost 66, on		
bluff side of CM&StP Ry, 15 feet from center, on large prominent bowlder, marked "U S"; highest point in		
prominent bowlder, marked "UDS"; highest point in		
square (U.S.C.E.t.b.m, 230)	632.167	Bull. 569
McGregor, 1.8 miles below, on right of way of CM&StP Ry,		
11 meters east of center of track, 84 meters above mile-		
post 66, directly opposite Pictured Rocks; copper bolt in		
tile surmounted by iron pipe (U.S.C.E.b.m. 196/3):	005.50	T 11 540
Copper bolt	627.78	Bull. 569
Cap on pipe	631.78	,
McGregor, in front of CM&StP Ry station; base of rail	627.17	Bull. 569
(U.S.C.E.b.m.)	027.17	ъші. 909
and of brick building owned by Mrs. T. Roynelds, now		
end of brick building owned by Mrs. J. Reynolds, now occupied by Huntington Grain Firm, 23 inches south		
from N.W. cor. and 4 feet and 10 inches above ground;		
copper bolt, marked "U.S.OP.B.M." (U.S.C.E.p.b.m.		
235)	632.804	Bull. 569
McGregor, on north side of Main St., just above Masonic		
block, in brick building occupied by Elbling Cigar Man-		
ufactory, in stone doorsill 2 feet from SW. cor. building,		
4.5 inches back from front line; copper bolt marked		
"U.S.⊙P.B.M." (U.S.C.E.p.b.m. 234)	631.655	Bull. 569
McGregor, at NW. cor. Main St. and railroad, at sidewalk		
entrance to Gregor McGregor's residence, on river end		

STATION	ELEVATION FEET	AUTHORITY
of bottom step, on level with sidewalk, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 228)	628.838.	Bull. 569
McGregor, T. 95 N., R. 3 W., SE. ¼ sec. 33, SW. cor. schoolhouse; iron post stamped "1103 DBQ"	1330.51	Bull. 569 CGW C&NW CB&Q
McPaul, 1.3 miles SW. of station, 656 feet north by 26 feet west of SE. cor. SW. ¼ sec. 5, T. 69 N., R. 42 W., on land of William Woods, 3 feet west of hedge on west side of public road; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 330 equals 114/3):		
Copper bolt Cap on pipe McPaul, 4,941 feet north of station, 46 feet south of center of public road, 13 feet south of fence corner, 48 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 331):	931.360 935.352	Bull, 569
Copper bolt	936.875 940.890	Bull. 569
Copper bolt	931.21 935.29 1109	Bull. 569 CB&Q
McVeigh	747	CB&Q CB&Q
27, NE. cor. crossroads, just east of fence corner; iron post stamped "1009"	1,008.180	Bull. 569
marked "1025.2"	1,024.12	Bull. 569
crossroads, at schoolhouse; copper nail in base of telephone pole, marked "1004.9"	1,003.87	Bull. 569
Mackey, 2 miles north of, T. 85 N., R. 25 W., cor. secs. 3, 4, 9, and 10, 10 feet south of center of crossroads; chiseled	976.833	Bull. 569
square on top of stone, marked "1025.96"	1,024.87	Bull. 569
marked "1028.9" Mackey, 4 miles north of, T. 86 N., R. 25 W., NE. cor. sec. 33, SW. cor. crossroads; copper nail in base of telephone	1,027.75	Bull, 569
Mackey, 5 miles north of, T. 86 N., R. 25 W., SE. cor. sec.	1,038.10	Bull. 569
21, 8 miles west of Randall, NW. cor. crossroads, at fence corner; iron post stamped "1061"	1,060.100	Bull. 569
per nail in base of telephone pole, marked "964.3"	963.25	Bull. 569

	ELEVATION	
	FEET	AUTHORITY
east side of private road south; copper nail in base of telephone pole, marked "978.98"	977.97	Bull. 569
Mackey, 2 miles south by 3 miles east of, T. 85 N., R. 25		Dun. 505
W., SE. cor. sec. 25, on north-south county line between		
Boone and Story counties, NW. cor. crossroads; copper		
nail in base of telephone pole, marked "969.1"	968.09	Bull. 569
Macuta, base of rail opposite station sign	1305,G1303	CRI&P AT&SF
Macy	1162	IC
Madison Junction (Hayfield)	1214	M&StL
Madrid (main line)		CM&StP
Madrid, Boone line	1021	CM&StP
Madrid, crossing C&CB division	1021	CM&StP
Cass Tp.; iron post stamped "894"	892.973	Bull. 569
Madrid, T. 81 N., R. 25 W., NE. cor. sec. 5; spike in tele-	002.0.0	2000
phone pole, marked, "U.S.B.M. 991"	989.69	Bull. 569
Madrid, T. 81 N., R. 25 W., SE. cor. sec. 5; spike in corner	001.00	D 11 500
fence post, marked "U.S.B.M. 992"	991.00	Bull. 569
Madrid, 2 miles east by 3 miles south of, at T road, NE. cor. sec. 17, Madison Tp.; spike in base of fence post	938.17	Bull. 569
Madrid, 2 miles east by 3.5 miles south of, at road crossing	330.11	Dui: 003
near United Brethren Church, east side of sec. 17, Madi-		
son Tp.; spike in root of maple tree	975.07	Bull. 569
Madrid, T. 82 N., R. 25 W., south corner between secs. 27		
and 28; spike in corner fence post, marked "U.S.B.M.	1 009 46	D.11 560
1010''	1,008.46	Bull. 569
stamped ''1000''	998.766	Bull. 569
Madrid, on south end of middle pier of cement railroad		
bridge about 250 feet east of station; aluminum tablet	;	
stamped "997"	995.769	Bull. 569
Madrid, 1.9 miles north of, on east side of north-south highway; spike in base of telephone pole at T road	1,042.24	D.11 560
Madrid, 2.4 miles north of, SW. cor. sec. 18, Garden Tp.,		Bull, 569
at T road; iron post stamped "1033"	1,031.730	Bull, 569
Madrid, 3.3 miles north of, at SW. cor. sec. 7, Garden Tp.,	,	
at road crossing; spike in base of telephone pole	1,060.45	Bull. 569
Madura, changed to Cranston		CM&StP
Majil	$1219.0 \\ 997$	CGW ISU
Malcom		CRI&P
Mallard		M&StL
Malone		C&NW
Maloy11	120.0,G1120	CGW
Malta Malvern 10	1068,01058	M&StL
Malvern, top of rail	996.50	CB&Q T&N
Malvern		WRR
Malvern, crossing CB&Q		$\overline{\mathrm{WRR}}$
Malvern	G995	Weather Bur.
Manchester, in front of IC RR station; top of rail		Bull. 569
Manchester, 150 feet south of stock yards, on west side of IC RR track, south side of street; iron post stamped		
"949",	939.802	Bull, 569
Manchester, railroad crossing Maquoketa river		USGS
Manchester	941	IC
Manilla	1317,G1320	CM&StP
Manilla, divide 3 miles west of	1465	CM&StP
Manly, crossing CRI&P	205.1 (31199	CGW
2-02-1, 0-00-25 O-20-2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OU W

	ELEVATION FEET	AUTHORITY
Manly		M&StL
Manly, crossing CRI&P	1210,61202	M&StL M&StL
Manly, crossing CGW	1211	M&StL
Manning	1324.G1324	C&NW
Manning	1364	CM&StP
Manning, crossing over C&NW and CGW	1360	CM&StP
Manning	1320.2	CGW
Manson	1234,G1232	CRI&P
Manson, crossing IC	1237	CRI&P
Manson	1237,G1233	. IC
Manson, crossing CRI&P	1236,G1233	IC
Maple Hill	1285,G1275	CRI&P
Maple Hill, crossing C&NW	1280	CRI&P
Maple River	1265,G1263	C&NW
Mapleton		C&NW
Mapleton	1133,61136	CM&StP CM&StP
Maquoketa	701 (3601	CM&StP
Maquoketa		Weather Bur.
Maquoketa		C&NW
Maquoketa, center Maquoketa Tp.	700	USGS
Maquoketa, center South Fork Tp.	660	USGS
Marathon	1392,G1395	C&NW
Marathon, crossing CM&StP	1392	C&NW
Marathon	1391,G1395	CM&StP
Marathon, crossing C&NW	1393	CM&StP
Marble Rock		CRI&P
Marcus	1455,G1451	IC
Marengo		CRI&P
Marietta		M&StL
Marion		CM&StP CRI&P
Marne, 75 feet south of track, opposite a point 100 feet	1190,61193	Culwb
west of station, 10 feet south of corner post of P. C.		
Meredith's yard; iron post	1,184.096	Bull. 569
Marne, in front of CRI&P station, top of rail	1,193.3	Bull. 569
Marne, 3 miles east of, in NW. stone abutment of bridge	1,10010	25422.000
444; aluminum tablet (reset in 1906 by railroad engi-		
neer)	1,211.1	Bull. 569
Marne, 3 miles east of, on NE. cor. east abutment; chis-	,	•
eled cross	1,210.18	Bull. 569
Marquette (formerly North McGregor)	627,G624	CM&St.P
Marquette, in front of station; base of rail (U.S.C.E.b.m.)	627.74	Bull. 569
Marquette, at upper end of, where bluffs come out to tracks,		
0.5 meter east of perpendicular rock cliff and at an		
elevation about 9 meters higher than railroad tracks, 15		
meters above sign "R. R. Crossing Stop 400 feet;" copper bolt in solid rock surmounted by iron pipe (U.S.		
C.E.b.m. 197/3):		
Copper bolt	664.02	Bull. 569
Cap on pipe	666.75	Dan. 000
Marquette, on north side of North St., in O. A. Bratsberg's	000110	
brick store, in water table 1 foot east of entrance.		
marked "U.S. P.B.M."; copper bolt (U.S.C.E.p.b.m.		
233)	631.292	Bull. 569
Marquette, 131 feet below station, 8 feet east of SE. cor.		
small wagon road and footbridge, 6 feet below floor on		
river end of south abutment; highest point in square,	400 =0=	T 11 FA-
marked "UDS" (U.S.C.E.t.b.m. 227)	620.727	Bull. 569
Marquette, 2 miles west of, at top of Hatch Hill, on south		

	ELEVATION	
Station	FEET	AUTHORITY
side of road, in NW. cor. yard of J. K. Gray; iron post		
stamped "1096 DBQ"	1,096.904	Bull. 569
Marquette, Mississippi river, low water	G604	Miss. Riv. Com.
Marquette, Mississippi river, high water	G626	Miss. Riv. Com.
Marquette	G626	Weather Bur.
Marsh, Black Hawk Co.	963	IC
Marsh, Louisa Co. Marshalltown	000 0000	M&StL M&StL
Marshalltown, crossing C&NW and CGW	807 G801	M&StL M&StL
Marshalltown	884	C&NW
Marshalltown, crossing M&StL and CGW	893	C&NW
Marshalltown	397.8 G899	CGW
Marshalltown, crossing C&NW and M&StL	376.1,G890	CGW
Marshalltown, crossing Timber creek east of	861	C&NW
Marshalltown, crossing Timber creek east of	877	M&StL
Martelle		CM&StP
Martensdale		CRI&P
Martensdale, crossing under CGW	830	CRI&P
Martensdale, crossing CRI&P	833.2	CB&Q
Martensdale, Middle river at CB&Q bridge at	866.6	CGW
Martins	816 630	IaGS CRI&P
Martinsburg	821 G814	M&StL
Martinsburg	805	CB&Q
Marysville, Marion Co., bridge at		IaGS
Mason City	1125	M&StL
Mason City1	l21.1.G1120	CGW
Mason City, crossing C&NW	135.7.G1124	CGM
Mason City, crossing CM&StP	G1146	CGW
Mason City	1120	C&NW
Mason City, crossing CM&StP	1141	C&NW
Mason City, crossing M&StL	1181	C&NW
Mason City		CM&StP
Mason City, junction with Ia. & Minn. Div	1129 1142	CM&StP CM&StP
Mason City	G1130	Weather Bur.
Mason City Junction, crossing M&StL.		CM&StP
Mason City Junction, crossing CM&StP	1134	M&StL
Masonville	1002.G1004	IC
Massena 19	19 64 (31911	CB&Q
Massena, crest of hill north of.  Massena, SW. cor. sec. 31, T. 74 N., R. 34 W.	1306	IaGŠ
Massena, SW. cor. sec. 31, T. 74 N., R. 34 W.	1206	IaGS
Massena, center of Massena Tp	1316	IaGS
Massena, level Nodaway river south of station	1183	IaGS
Massena, crest of ridge one mile south of	1306	IaGS
Massey	621	CM&StP
Ry, 0.5 meter from fence, opposite a point about 10		
meters below a post on roadbed marked "34-127," 400		
meters below railroad bridge 74K; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 177/3):		
Copper bolt	623.20	Bull. 569
Cap on pipe		
Massey, 1 mile below foot of Ninemile Island, on south		
abutment of bridge 76, west end, on second course of		
stone from ton, marked "UDS"; highest point in		
square (U.S.C.E.t.b.m. 311)	611.551	Bull. 569
Massey, opposite foot of Ninemile Island, at wood yard,		
20 feet below road leading from wood yard across CM&		
StP Ry track up bluff, 36 feet east from center of track and 2 feet west of east right-of-way fence; copper bold		
and a reet west or east right-or-way rence; copper bold	,	•

STATION	ELEVATION	<b> </b>
	FEET	AUTHORITY
in tile surmounted by iron pipe (U.S.C.E.p.b.m. 288 and 289):		
Copper bolt	603,772	Bull. 569
Cap on pipe	607.771	Dan. 000
Massey station, 1.4 miles below, on south abutment of	,	
CM&StP Rv bridge 78K, west end, on second course of		
stone from top, on SW. cor., marked "US"; highest point in square (U.S.C.E.t.b.m. 308)	207 000	70 17 700
Massey behind Ninemile Island 0.5 mile below Massey	607.082	Bull. 569
Massey, behind Ninemile Island, 0:5 mile below Massey station, 1,970 feet below milepost 124-37, 449 feet above		
CM&StP Ry bridge 80K, 170 feet below bridge 82K, 30		
feet west of center of track, spike in base of black-oak		
tree (U.S.C.E.t.b.m, 307)	609.690	Bull. 569
Massey, 50 meters below railroad station, on right of way		
CM&StP Ry, 50 meters toward river from foot of bluffs,		,
0.5 meter from farthest fence from river; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 178/3):		
Copper bolt	619.67	Bull. 569
Cap on pipe		Dun. 000
Massillon		CM&StP
Matlock		IC
Maurice		C&NW
Maurice, crossing GN	1292	C&NW
Maurice	1303 1313	GN GN
Maurice, C&NW track	1289	GN
Maurice, 3 miles east of	1395	IaGS
Max	1555,G1561	CM&StP
Maxon		M&StL
Maxon, crossing CB&Q		M&StL
Maxon	941.5,6944	$CB\&\mathbf{Q}$
Maxon, 220 feet NE. of water tank, at road crossing	941.5,G944	CB& <b>Q</b>
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR. 20 feet south of tracks, in top on NE. cor.	941.5,G944	CB& <b>Q</b>
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	941.5,G944 945.12	CB&Q
Maxon, 220 feet NE. of water tank, at road crossing	,	USGS
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2	USGS USGS
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944	USGS USGS Weather Bur.
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874	USGS USGS Weather Bur. CM&StP
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"  Maxon, road crossing M&StL RR near above location, top of north rail	945.12 933.2 G944 885,G874 1099	USGS USGS Weather Bur.
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099	USGS USGS Weather Bur. CM&StP
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099	USGS USGS Weather Bur. CM&StP CRI&P
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162	USGS USGS Weather Bur. CM&StP CRI&P
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ".  Maynard, 120 feet south of CRI&P Ry station, at crossing;	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail  Maxon  Maxwell  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168"  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ"  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"  Maxon, road crossing M&StL RR near above location, top of north rail	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ"  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mechanicsville	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ"  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mechanicsville	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774	USGS USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxymard  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ"  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mechanicsville  Mederville, SW. ¼ sec. 22, T. 92 N., R. 5 W., SW. cor. schoolhouse yard; iron post stamped "767 DBQ"  Mediapolis, union station with CB&Q  Mediapolis, junction with CB&Q	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P CB&Q
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772 530	USGS USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3"	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772 530 045.0,G1041 1052.0	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P CB&Q CB&Q CGW CGW
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ".  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mederville  Mederville, SW. ¼ sec. 22, T. 92 N., R. 5 W., SW. cor. schoolhouse yard; iron post stamped "767 DBQ"  Mediapolis, union station with CB&Q  Mediapolis, junction with CRI&P.  Meigs, M.P. 182  Melbourne, crossing M&StL  Melbourne, crossing over CM&StP	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772 530 045.0,G1041 1052.0 1058.6	USGS USGS Weather Bur. CM&StP CRI&P CRI&P Bull. 569 Bull. 569 Bull. 569 Bull. 569 Eags ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P CB&Q CB&Q CGW CGW CGW
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ".  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mechanicsville  Mederville, SW. ¼ sec. 22, T. 92 N., R. 5 W., SW. cor. schoolhouse yard; iron post stamped "767 DBQ".  Mediapolis, union station with CB&Q  Mediapolis, junction with CRI&P  Meigs, M.P. 182  Melbourne, crossing M&StL  Melbourne, crossing over CM&StP  Melbourne	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772 530 045.0,G1041 1052.0 1058.6 1031	USGS USGS Weather Bur. CM&StP CRI&P Bull. 569 Bull. 569 Bull. 569 IaGS ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P CB&Q CB&Q CGW CGW CGW CGW CM&StP
Maxon, 220 feet NE. of water tank, at road crossing CB&Q RR, 20 feet south of tracks, in top on NE. cor. concrete retaining wall to culvert over switch cables; chiseled square, painted "U.S.B.M. 945.3".  Maxon, road crossing M&StL RR near above location, top of north rail Maxon  Maxwell  Maynard, T. 92 N., R. 8 W., NE. cor. sec. 21; in school yard; iron post stamped "1168".  Maynard, NE. cor. sec. 21, T. 92 N., R. 9 W.; iron post stamped "1164 DBQ".  Maynard, 120 feet south of CRI&P Ry station, at crossing; top of rail  Maynard, 5 miles east of, center Smithfield Tp.  Meadows  Mechanicsville  Mederville  Mederville, SW. ¼ sec. 22, T. 92 N., R. 5 W., SW. cor. schoolhouse yard; iron post stamped "767 DBQ"  Mediapolis, union station with CB&Q  Mediapolis, junction with CRI&P.  Meigs, M.P. 182  Melbourne, crossing M&StL  Melbourne, crossing over CM&StP	945.12 933.2 G944 885,G874 1099 1,168.916 1,165.162 1,102.4 1168 1009 896,G895 G899 735,G733 768.000 774 772 530 045.0,G1041 1052.0 1058.6 1031 1032	USGS USGS Weather Bur. CM&StP CRI&P CRI&P Bull. 569 Bull. 569 Bull. 569 Bull. 569 Eags ISU C&NW Weather Bur. CM&StP Bull 569 CRI&P CB&Q CB&Q CGW CGW CGW

STATION	ELEVATION FEET	AUTHORITY
Melcher, T. 74 N., R. 21 W., at SE. cor. sec. 6, at NW. cor.		AUTHORITY
T road west, on top of north end of corrugated iron		
drain; painted square	850.22	Bull. 569
Melcher, T. 74 N., R. 21 W., near SW. cor. sec. 8, 200 feet NW. of road forks, at west end of steel highway bridge		
over Whitebreast creeek, top course, north end of sand-		
stone abutment; bottom of chiseled square	801.43	Bull. 569
Melcher, Whitebreast creek, surface of water, July 1, 1913 Melcher, T. 74 N., R. 21 W., at NW. cor. sec. 16, opposite	781.8	Bull. 569
T road west, 20 feet east by 2 feet south of section		
corner stone; iron post stamped "Iowa, 947, 1913"	946.588	Bull. 569
Melcher, T. 74 N., R. 21 W., at quarter corner on west side	,	
of sec. 9, at center of T road east, on east side in root of 36-inch cottonwood tree; copper nail	894.00	Bull. 569
Melcher, T. 74 N., R. 21 W., at quarter corner on east side	002.00	244. 000
of sec. 9, at summit of hill, 25 feet NW. of quarter		
corner stone, 2 feet west of fence corner, in top of wooden peg; copper nail	918.99	Bull. 569
Melcher, 1.3 miles west of, T. 74 N., R. 21 W., about 0.25		Dan ove
mile east of SW. cor. sec. 3, 35 feet NW. of road inter-		D-11 560
section, in peg at foot of 20-inch oak tree; copper nail Melcher, T. 74 N., R. 21 W., near quarter corner on east	921.28	Bull. 569
side of sec. 17, at NW. cor. T road north, in crotch near		
base of corner post; copper nail	956.95	Bull. 569
Melcher, T. 74 N., R. 21 W., near quarter corner on east side of sec. 16, in SW. cor. T road south, 15 feet west		
of center of triangular grass plat, 10 feet NW. of mail		
box, in top of wooden peg; copper nail	852.77	Bull. 569
Melcher, T. 74 N., R. 21 W., about 0.25 mile south of quarter corner on west side of sec. 22, at angle in road to		
west, in top of wooden peg, at SW. cor. yard; copper		
nail	985.13	Bull. 569
Melcher, T. 74 N., R. 20 W., 0.25 mile west of the SE. cor. sec. 30, in NW. angle crossroads, 8 feet north of		
corner post; iron post stamped "Iowa 887, 1913"	887.445	Bull. 569
Melcher, T. 74 N., R. 20 W., 0.25 mile east of quarter		
corner on north side of sec. 30, at elbow road (north to east) 1 foot east of corner post on inside of turn, in top		
of wooden peg; copper nail	898.27	Bull. 569
Melcher, T. 74 N., R. 20 W., at quarter corner on east side		
sec. 19, in NW. angle of T road west, 5 feet north of corner post, in top of peg; copper nail	922.70	Bull. 569
Melcher, T. 74 N., R. 20 W., at quarter corner on east side		Dun. 505
sec. 18, at NW. angle of crossroads. SE. cor. yard, in		
root of 18-inch maple tree; copper nail	924.56	Bull. 569
T road east, on west side of north-south road, 15 feet		
north of fence corner; iron post stamped "Iowa 869,		
1913'' Milehes T. 74 N. P. 20 W. et N.W. con see 16 in SE	869.649	Bull. 569
Melcher, T. 74 N., R. 20 W., at NW. cor. sec. 16, in SE. angle of T road south, 20 inches east of corner post, in		
top of peg; copper nail	906.34	Bull. 569
Melcher, T. 74 N., R. 20 W., at quarter corner on south side of sec. 9, at T road north, 20 feet north of road		
junction, in SE. cor. bridge floor; copper nail	807.17	Bull. 569
Melcher, T. 74 N., R. 20 W., at quarter corner on north		
side of sec. 9, in SW. angle of crossroads, south end of	869.37	Bull. 569
plank drain, in top of; copper nail	000.01	Duii. 309
side of sec. 4, in SW. angle of T road south, 1 foot east	007.7.0	TO 11 200
of corner post, in top of wooden peg; copper nail	881.16	Bull. 569
Additioner, 1. 14 14., IV. 20 W., 0.20 mile east of 14 W. Cor. Sec.		

	ELEVATION	
STATION	FEET	AUTHORITY
4, 20 feet south and 15 feet west of junction of T road		
north, 3 feet north of fence; iron post stamped "901	000 001	T) 11 F00
Iowa''. Melcher, T. 75 N., R. 21 W., 0.25 mile north of SW. cor.	900.001	Bull. 569
sec. 23, at T road on east side of north and south road,		
35 feet east of fence, 10 feet north of north fence on		
east-west road; iron post stamped "912 Iowa"	910.688	Bull. 569
Melcher, T. 75 N., R. 20 W., 0.25 mile east of SW. cor. sec.	010.000	Dan 000
33, 20 feet south and 15 feet west of junction of T road		
north and east and west road; 3 feet north of fence;		
iron post stamped "901 Iowa"	900.001	Bull. 569
Melcher, T. 75 N., R. 21 W., 0.25 mile west of SE. cor. sec.		
35, 18 feet east and 10 feet south of center of crossroads,		
near corner fence post at SE. angle T road, in stone;		
aluminum tablet stamped "Prim. Trav. Sta. No. 4, 927,	005 700	D11 E.CO
Iowa''	925.789	Bull. 569
center of road; painted "919.8" on fence	919.72	Bull. 569
Melcher, at west side of Dallas, 200 feet NW. of highway	010.12	Dan: 000
bridge over CRI&P Ry, at SW. cor. main east-west street		
with T road north, in root of 10-inch maple tree; copper		
nail	946.32	Bull. 569
Melrose	870,G871	$^{\mathrm{CB}\&\mathrm{Q}}$
Melrose, T. 72 N., R. 20 W., in NW. cor. sec. 36, in SE.		
angle of crossroads, 250 feet west of schoolhouse, on	000 00	D. 11 500
tail wall of concrete drain; bottom of chiseled square	999.80	Bull.569
Melrose, T. 72 N., R. 20 W., 0.25 mile east of quarter corner on north side of sec. 36, in SW. angle of cross-		
roads, north of La Grange Church, 5 feet west of fence		
corner; iron post stamped "Iowa 1012, 1913"	1,012.489	Bull.569
Melrose, T. 72 N., R. 19 W., near NE. cor. sec. 31, on	-,	
south side of road, at crest of hill, on east side of drive		
leading into S. L. Auxier's residence, on concrete block		
at gate; painted square	1,003.95	Bull.569
Melrose, T. 72 N., R. 19 W., at quarter corner between secs.		
29 and 32, at T road north, in front of Wayne School, on		T. 11 500
section stone; chiseled circle	1,010.28	Bull.569
corner on south side of sec. 28, in NW. angle of T road		
north, 5 feet north of corner post; iron post stamped		
"Iowa 994, 1913"	994.370	Bull.569
Melrose, T. 72 N., R. 19 W., at center of sec. 21, in NW.		
angle of crossroads, 12 feet north of corner post, in top		
of wooden peg; copper nail	981.80	Bull.569
Meltonville12	02.9,G1196	CGW
Melvin	1585,G1581	CRI&P
Mendota, Mo.		CB&Q
Menlo	1261,G1264	CRI&P
Menlo, 1.5 miles west of, in NW. abutment of bridge 385	1,279.018	Bull. 569
(bridge over wagon road); aluminum tablet	1,265.2	Bull. 569
Menlo, 30 feet south of track, opposite point 300 feet east	1,200.2	Dun. 505
of station, 75 feet east of road crossing; iron post	1,263.893	Bull. 569
Menlo, SW. 1/4 sec. 1, T. 76 N., R. 31 W	1098	IaGS
Meriden	1404,G1402	IC
Merle Junction, Creston branch	1154.6	CB&Q
Merle Junction, Shenandoah line	1169	CB&Q
Merrill	1177.9	C&NW
Merrill, union station with CStPM&O	G1174 G1174	IC
Merrill	1177	GN
Mertensville	702	CB&Q

	ELEVATION	
Station	FEET	AUTHORITY
Mertensville, crossing under CB&Q, Mt. Pleasant line	681	CB&Q
Meservey		CGW
Meservey, 1 mile south of, Franklin-Cerro Gordo Co. line	1256	CGW
Metz		CRI&P
Miami, Tps. 73 and 74 N., Rs. 17 and 18 W., Tp. cor. in	101,0190	CIVICI
GE and of Trand couth 90 fact couth by 1 fact west		
SE. angle of T road south, 20 feet south by 1 foot west		
of corner of yard fence to farmhouse, in top of concrete		
post; bronze tablet stamped "E.B. No. 7 1924 Iowa" painted "U.S.P.B.M. 914.9"	014 504	TTOOO
painted . U.S.P.B.M. 914.9	914.796	USGS
Miami, reference mark, 65 feet north by 85 feet east of		
tablet, in root on SE. side of a 5-foot cottonwood tree;		
copper nail and washer	914.78	USGS
Miami	778.35	C&NW
Middle Amana	717	${ m CM\&StP}$
Middle Amana, crossing under CRI&P	746	CM&StP
Middletown	724,G724	CB&Q
Midland, Lyon Co.	1435	CRI&P
Midland Junction, Clinton Co	595,G593	CM&StP
Mid River, top of rail on south line sec. 22, Tp. 81, R. 7,	,	
1100 feet east of SW. cor. sec. 22	706.50	CR&IC
Mid River, top of rail on south line sec. 27, Tp. 81, R. 7.		
550 feet west of SE. cor. sec. 27	725.30	CR&IC
Midvale	996	FtDDM&S
Midvale, T. 82 N., R. 24 W., 0.25 mile north of center of		2022
sec. 2, road to east; spike in telephone pole; marked		
"U.S.B.M. 977"	976.11	Bull. 569
Midvale, T. 82 N., R. 24 W., SW. cor. SE. 1/4 sec. 2; iron	010.11	Duii. 503
post stamped "979"	977.405	Bull. 569
Midvale, T. 82 N., R. 24 W., NW. cor. of NE. ¼ sec. 14;	311.400	ъш. 503
spike in telephone pole, marked "U.S.B.M. 1001"	1 000 10	D.11 560
Spike in telephone pole, marked "U.S.B.M. 1001"	1,000.12	Bull. 569
Midway	683,G681	CRI&P
Miles		CM&StP
Milford		CM&StP
Miller, Hancock Co	1225	CRI&P
Miller, Polk Co. Milleray, Dubuque Co., T. 87 N., R. 1 E., SE. ¼ sec. 11,	873.55	DM&CI
Milleray, Dubuque Co., T. 87 N., R. 1 E., SE. 1/4 sec. 11,		
NE. cor. frame building at junction of roads going south		
(formerly Melleray post office, commonly called the		
(formerly Melleray post office, commonly called the "Corners"); iron post stamped "1065"	1,065.583	Bull. 569
Millerton	1074	CRI&P
Millman	834.4	cgw
Millman	G830	Weather Bur.
Mill Rock, Jackson Co.	715	USGS
Millville	640,G639	${ m CM\&StP}$
Millville, NW. cor. sec. 15, T. 91 N., R. 2 W.; iron post	,	
stamped "638"	639.310	Bull. 569
Millville, T. 91 N., R. 3 W., near center of sec. 13, 100		
feet east of junction of roads; iron post stamped "897"	898.170	Bull. 569
Milo		CB&Q
Milo, T. 74 N., R. 23 W., NW. cor. sec. 1, SW. angle of	010,0012	ODUG
crossroads; in limestone rock 8 by 8 by 33 inches, set 32		
inches in ground; aluminum tablet stamped "977 Adj"	976.674	Bull. 569
Milo, T. 74 N., R. 23 W., SW. cor. sec. 1, in NE. cor.	310.014	Duit. 505
aragranda at Croonplain School wort side of concrete		
crossroads, at Greenplain School, west side of concrete		
walk, top of south end, date 1911; mark on raised part of	000.00	D11 F#A
upper loop of figure "9".	990.90	Bull. 569
Milo, T. 74 N., Rs. 22 and 23 W., at cor. secs. 6, 7, 1 and 12, in center of crossroads, 3.5 miles south of Milo, in		
12, in center of crossroads, 3.5 miles south of Milo, in	040.00	D.11 500
section stone; highest point of square cut	948.83	Bull. 569
Milo, T. 74 N., R. 22 W., SE. cor. sec. 6, in NW. cor.		

Station	ELEVATION FEET	AUTHORITY
crossroads, 3 feet east of corner post; iron post	1461	HOIMOMIII
stamped ''Towa 880, 1913''	880.465	Bull. 569
Milo, 1.75 miles west of, T. 75 N., R. 23 W., west of cen-		
ter of sec. 23, at SW. cor. crossroads, 10 feet south of corner post, in limestone rock, 6 by 8 by 30 inches, set 29		
inches in ground; aluminum tablet stamped "896 Adj"	894.377	Bull. 569
Milo, T. 75 N., R. 23 W., about 0.25 mile east of NW. cor.		
sec. 26, opposite T road west, 2 feet south of telephone		~ 11 ~40
pole, in top of wooden peg; copper nail	921.55	Bull. 569
Milo, T. 75 N. R. 23 W., about 0.25 mile east of the SW. cor. sec. 26, at NW. cor. crossroads, 12 feet north of		
corner post, in root of 12-inch locust tree; copper nail	908.92	Bull. 569
Milo, T. 75 N., R. 23 W., sec. 10, 0.25 mile west of NE.		
cor., 4 feet west of corner post, at SW. angle of road		
forks, limestone rock 8 by 9 by 32 inches; aluminum tablet stamped "958 Adj"	957.178	Bull. 569
Milo, South river at CB&Q bridge south of	775	IaGS
Milton		CB&Q
Minburn1	.052,G1046	M&StL
Minden11	78.2,G1185	$\overline{\text{CGW}}$
Minden, crossing CRI&P11		CGW
Minden	1193	CRI&P
Minden, 100 feet south of CRI&P Ry track, opposite a point 120 feet west of station, 6 feet south of wagon		
road; iron post	1,187.345	Bull. 569
Minden, in front of CRI&P Ry station; top of rail	1,196.8	
Minden, 0.25 mile east of, in SW. concrete abutment of	,	
CRI&P Ry bridge crossing the CGW Ry track, 2 feet		
from outer corner of abutment; aluminum tablet	1,201.385	
Mineola	1028	WRR
Mineral Pidra Board Co. 05 mile north by 9.9 miles cost	1036	IaGS
Mineral Ridge, Boone Co., 0.5 mile north by 2.2 miles east of, T. 85 N., R. 26 W., NE. cor. sec. 16, SW. corner of		
crossroads; copper nail in base of telephone pole, marked		
''1163.0''	1,162.02	Bull. 569
Mineral Ridge, T. 85 N., R. 26 W., NE. cor. sec. 9, SW.	,	
cor. crossroads, 7 feet south of SW. fence corner; iron		T 11 #40
post stamped "1138"	1,136.704	Bull. 569
Mineral Ridge, T. 86 N., R. 26 W., SW. cor. sec. 34, on county line between Webster and Boone counties, NE.		
cor. crossroads: copper nail in base of corner fence		
post, marked '1106.4''	1,105.38	Bull. 569
Mineral Ridge (the village)	1200	USGS
Mineral Ridge (the hill) 1 mile north by 1 mile east of		
the village	1240	USGS
Minerva Junction		M&StL M&StL
Mingo		CGW
Mississippi Park		CD&M
Missouri Valley	1005.G1006	C&NW
Missouri Valley, 2.2 miles south of, 300 feet south of south	,	
end of bridge 978, 90 feet south of milepost 20, 46 feet		
east of tracks; copper bolt in bench-mark stone sur-		
mounted by iron pipe (U.S.C.E.p.b.m. 357):	004.005	D.:11 500
Cap on pipe	994.995 999.007	Bull. 569
Missouri Valley, at NW. cor. Second and Erie Sts., in SE.	000.001	
cor. Kreder's billiard hall, 7½ inches west of east face		
of building and 1.23 feet above sidewalk; copper bolt		
(U.S.C.E.p.b.m. 358)	1,006.448	Bull. 569
Missouri Valley, 3 miles west of, 335 feet east of east end		
of railway bridge 4, 886 feet west of milepost 3, 47 feet		

	ELEVATION	
STATION	FEET	AUTHORITY
north of C&NW track; copper bolt in bench-mark stone		,
surmounted by iron pipe (U.S.C.E.p.b.m. 359): Copper bolt	1,001.635	Bull. 569
Cap on pipe	1,005.654	Dan. 000
Mitchell	1195	IC
Mitchellville	. 9 <b>65,</b> G9 <b>6</b> 7	CRI&P
Mitchellville	969.26	DM&CI
Modale1	.015,G1016	C&NW
Modale, 0.8 mile south of, 195 feet north of railway bridge		
10, 46 feet east of railway; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 362):		
Copper bolt	1,008.745	Bull. 569
Cap on pipe	1,012.737	244.000
Modale, 1 mile north of, 2,320 feet north of milepost 11, 60	_,	
feet south of highway crossing, 46 feet east of tracks;		
copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 363):	1 010 100	TD 31 F40
Copper bolt	1,010.123	Bull. 569
Cap on pipe Modale, T. 79 N., R. 45 W., 150 feet west of one-quarter	1,014.132	
post between secs. 22 and 27, between Soldier River and		
Horse Shoe Lake, on north side of east-west road; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
128/3):		
Copper bolt	1,012.83	Bull. 569
Cap on pipe	1,016.90	~~~
Moingona	906, <del>G</del> 905	C&NW
Moingona, 2 miles SE. of, near center sec. 17, Marcy Tp., west abutment of Sixteen to One Bridge over Des Moines		
river Sixteen to One Bridge over Des Moines	872.80	Bull. 569
Moingona, 1.5 miles south of, at Y road, SE. cor. sec. 13,	012.00	Dun. 005
Marcy Tp.; iron post stamped "1060"	1,058.725	Bull. 569
Moingona, 1.5 miles south by 1.2 miles west of, at T road,	_,,,,,,,,,	
south center SE. 1/4 sec. 14, Marcy Tp.; spike in base		
of telephone pole	1,080.18	Bull. 569
Moingona, T. 83 N., R. 27 W., SW. cor. sec. 10, on north		
side of road at T road south, foot of corner fence post,		
west side of gate; chiseled square on concrete founda- tion, marked ''1089.6''	1 000 74	D11 560
Moingona, T. 83 N., R. 27 W., NW. cor. sec. 22, SE. cor.	1,088.74	Bull. 569
crossroads, NW. cor. schoolhouse yard, inside fence cor-		
ner; iron post stamped "Prim. Trav. Sta. No. 14, 1093"	1,092.280	Bull. 569
Mona, Mitchell Co.		IC
Mona Siding, East switch, Black Hawk Co	869	IC
Mondamin	.025,G1025	C&NW
Mondamin, 2 miles south of, 7 feet west of west right of		
way fence, 54 feet west of tracks; copper bolt in bench-		
mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 364):		
Copper bolt	1,013.797	Bull. 569
Cap on pipe	1,017.813	200.000
Mondamin, 246 feet east of tracks, in center of sandstone	,	
block in SW. cor. brick building occupied by D. Ganet		
& Co., 0.71 foot from west wall of building; copper bolt		
(U.S.C.E.p.b.m. 365)	1,025.041	Bull. 569
Mondamin, 2,238 feet north of station, 889 feet south of		
public-road crossing, 33 feet south of milepost 17, 46 feet east of railway; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 366):		
Copper bolt	1,022.003	Bull. 569
Cap on pipe	1,026.005	
Mondamin, 2.2 miles north of, 246 feet north of public-		

	ELEVATION	
STATION	FEET	AUTHORITY
road crossing, 299 feet north of dwelling of Joseph		•
Krummel, 105 feet east of tracks, in corner of field; copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 367 equals 130/2):		
Copper bolt	1,020.506	Bull, 569
Cap on pipe	1,024.499	
Mondamin, T. 79 N., R. 45 W., on west side of section-line		
road between secs. 3 and 4, 1,208 feet south of NE. cor.		
sec. 4, on land owned by John Harrington, 2 miles from river; copper bolt in tile surmounted by iron pipe (U.S.		
C.E.b.m. 129/3):		
Copper bolt	1,013.67	Bull. 569
Cap on pipe	1,017.74	
Moneta	1452,G1447	CRI&P
Moningers		M&StL
Monmouth	764,G761 712	C&NW
Monona, in front of CM&StP Ry station; top of rail	1,215.6	USGS Bull. 569
Monona, T. 95 N., R. 5 W., 0.2 mile north of center sec.	1,210.0	Bun. oo
10. 60 feet north of railroad track, SE, of Walsh's		
house; iron post stamped "1184 DBQ"	1,185.584	Bull. 569
Monona	G1216	USGS
Monroe, B.M. top of monument M.P. 329 Monroe, B.M. top of monument M.P. 330	$906.76 \\ 913.63$	CRI&P CRI&P
Monroe, B.M. top of monument M.P. 331	906.92	CRI&P
Monroe, top of rail, center of depot9		CRI&P
Monroe, B.M. top of monument M.P. 332	913.11	CRI&P
Monroe, B.M. top of monument M.P. 333	907.35	CRI&P
Montieth	1037,G1037	CRI&P
Montezuma		CRI&P M&StL
Montgomery		CM&StP
Monticello		CRI&P
Monticello, south end of railroad bridge over Maquoketa	,	
river	G823 ·	USG <b>S</b>
Monticello, same as above	818	CM&StP
Montaur	G843	USGS C&NW
Montpelier		CRI&P
Montpelier, union station with CRI&P.	560	CM&StP
Montpelier, 2 miles north of, on middle pier of bridge over		
Pine creek, on line of CRI&P Ry, in north end of pier of		
bridge 60; brass bolt, marked "U.S.P.B.M." (U.S.C.E.	EE4 60E	D11 560
p.b.m. 34)	554.605	Bull. 569
RR bridge 52, in west end of pier; brass bolt, marked		
"U.S.P.B.M." (U.S.C.E.p.b.m. 35)	564.812	Bull. 569
Montpelier, 0.5 mile east of station, on west abutment of		
CRI&P RR bridge 45, in south end of abutment; brass		
bolt, marked "Ü.S.P.B.M." (U.S.C.E.p.b.m. 35a)	557.309	Bull. 569
Montpelier, on bench about 0.25 mile above slough between islands 324 and 325, on cleared grassy spot at edge of		
timber, 91 meters back of wagon road, 100 meters back		
of Andalusia slough; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 145/2):		
Copper bolt	627.39	Bull. 569
Cap on pipe	631.42	
Montpelier, on street running north from station, opposite and in line with south side of schoolhouse, 0.5 meter east		
of wire fence on west side of street; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 145/3):		
Copper bolt	600.91	Bull. 569

Sm. myoy	ELEVATION	
STATION	FEET	AUTHORITY
Cap on pipe	604.94	
and in line with south side of schoolhouse, 0.5 meter east		
of wire fence on west side of street; iron post stamped		
of wire fence on west side of street; iron post stamped "Mississippi River Commission 1892," surmounting U. S. Corps of Engineers b.m. 145/3. (The cap on this		
S. Corps of Engineers b.m. 145/3. (The cap on this		
pipe is quite loose, varying from 0.01 to 0.02 foot in	604.94	Bull. 569
Montpelier, 1.25 miles north of, T. 77 N. R. 1 E., near		Duii. 509
NW. cor. sec. 13, west side of road, south side of drain,	,	
on top of fence post (about on level with roadhed): con-		
per nail marked ''702.94''  Montpelier, T. 77 N., R. 1 E., about middle of west line of	702.95	Bull. 569
NW. 1/4 sec. 12, SE. cor. T road south, 2.5 feet above cen-		
ter of road, 6 feet east of corner fence post; copper nail		
about middle of brace post, marked "762.20"	762.23	Bull. 569
about middle of brace post, marked "762.20"		
11; T road north, marked "733"	733	Bull. 569
Montpelier, T. 77 N., R. 1 E., about center of W. ½ NW. 4 sec. 11, in SE. cor. T road south, 3 feet south of	;	
fence post, 15 feet east of fence line; iron post stamped		
('696')	695.922	Bull. 569
Montpelier, T. 77 N., R. 1 E., about center of N. 1/2 sec.	000.022	DMI: 000
10, on south side of road opposite drive to residence of		
O. A. Bohnsack, in base of brace post; copper nail Montpelier, T. 77 N., R. 1 E., near north line of sec. 9;	659.40	Bull. 569
T road east, marked "629.9"	620	D11 500
Montpelier, T. 77 N., R. 1 E., about middle of north line	630	Bull. 569
of NE. ¼ sec. 9, SE. cor. bridge over branch of Pine		
creek, 150 feet west of north-south road, 1 foot north of		
east end of south truss; copper nail in floor, marked		
"633.10"	633.16	Bull. 569
Montrose, Mississippi river, low water		CB&Q Miss. Riv. Com.
Montrose, in upper foundation stone of brick store build-		MISS. INV. COM.
ing on south corner of Main and Cedar Sts., on east side,		
3 feet from north corner; copper bolt, marked "U.S.P.		
B.M.'' (U.S.C.E.p.b.m. 3)	530.432	Bull. <b>569</b>
Montrose, just above, 125 meters below mouth of Jack		
creek, 110 meters above upper warehouse in Montrose and 15 meters from river bank, in root of 30-inch tree in		
willow grove; spike (U.S.C.E. ''61 Mackenzie'') marked		
by circular iron plate spiked in tree	507.33	Bull. 569
Montrose, on east side of first warehouse above station,		
near center of building, marked with black paint; high-		
water marks (U.S.C.E. high-water marks of 1851, 1888, 1881, 1880):		فيتعالب بالعلام
1851	514.65	Bull. 569
1888	513.09	
1881		
1880	<b>511.4</b> 0	
Montrose, opposite Nauvoo, Ill., on right bank of river, 11 meters from bank, in cluster of large soft maple trees,		
at mouth of Excelsior slough; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 115/3):		
Copper bolt	505.29	Bull. 569
Cap on pipe	509.30	
Montrose, 1.5 miles above, on sand ridge on west side of		
wagon road, 10 feet inside of fence, 300 meters below milepost 30, 300 meters above small shanty near corner		
of hedge fence; copper bolt in tile surmounted by iron		,
J , XX		

	777	
Station	ELEVATION FEET	AUTHORITY
pipe (U.S.C.E.b.m. 115/4 equals ⊙ Sand Ridge): Cap on pipe	546.88	Bull. 569
Montrose, Devils Island, 22 meters from bank of river, midway between shore and small slough running parallel with shore; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 116/3):	940.00	Bull. 509
Cap on pipe	506.90 510.90	Bull. 569
bench mark, on small ridge between pond and overflowed ground back; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 116/4):		•
Copper bolt	507.59	Bull. 569
Cap on pipe	511.59	
Montrose, Bluff Park	518	$_{\mathrm{CB\&Q}}$
Mooar		CB&Q
Moore	G654	Weather Bur. M&StL
Moorhead	1102	C&NW
Moorland11		CGW
Moorland, crossing M&StL11	47.0,G1152	CGW
Moorland,	1151	M&StL
Moorland, T. 88 N., R. 29 W., cor. secs. 20, 21, 28 and 29, 50 feet NW. of center of crossroads, in root of 18-inch		
maple tree, marked "1,143.9"; copper nail and washer	1,143.94	USGS
Moorland, T. 88 N., R. 29 W., cor. secs. 16, 17, 20 and 21, 60 feet NW. of center of crossroads, in base of corner		
fence post; marked "1,138.2"; spike	1,138.14	USGS
Moorland, T. 88 N., R. 29 W., cor. secs. 8, 9, 16 and 17, at T road south, 50 feet SE. of road fork, 6 feet east of		
fence corner, 2.5 feet north of fence line; iron post stamped "Iowa 1919 1,130"	1,129.955	USGS
Moorland, T. 88 N., R. 29 W., cor. secs. 9, 10, 15 and 16, T	1,120.000	abab
road west, 50 feet north of T road corners, in SE. cor. of bridge over drainage ditch, marked "1,116.6"; cop-		
per nail and washer	1,116.61	USGS
feet NW. of center of crossroads, in root of 2.5 foot cot-		TT0.00
ton wood tree; marked "1,129"; copper nail and washer	1,128.92	USGS
Moran, 2.5 miles south by 1 mile east of, at Y road, SE.	926.04	DM&CI
cor. sec. 32, Des Moines Tp.; iron post stamped "878" Moran, 2.5 miles south of, at road crossing, SW. cor. sec.	876.688	Bull. 569
32, Des Moines Tp.; spike in base of fence post	928.33	Bull. 569
Moravia	1009	ISU
Moravia		
Moravia	999 995	$egin{array}{c} \mathrm{WRR} \\ \mathrm{WRR} \end{array}$
Moravia, crossing CM&StP	750	WRR
Morgan Valley, see Bennington	700	77 1010
Morley	799,G800	CM&StP
Morningside	1234	CM&StP
Morning Sun	758,G752	M&StL
Morning Sun, crossing CRI&P	755,G748	M&StL
Morning Sun	741,6745	CRI&P
Morning Sun, crossing M&StL	$\begin{array}{c} 748 \\ 843 \end{array}$	CRI&P M&StL
Morrison	953.G947	CRI&P
Morse		CRI&P
Moscow	647,G654	CRI&P
Motor, Warren Co., 1 mile west of, T. 75 N., R. 22 W., SE.	·	
cor. sec. 3, NW. angle of crossroads, sandstone rock 8 by		

	ELEVATION	
STATION	FEET	AUTHORITY
10 by 24 inches, set 23 inches in ground; aluminum		
tablet stamped ''943 Adj''	941.926	Bull. 569
Moulton	991	WRR
Moulton, crossing CB&Q	991	$\begin{array}{c} \mathrm{WRR} \\ \mathrm{CB\&Q} \end{array}$
Moulton, crossing Wabash		CB&Q
Moulton Junction	988	WRR
Mount Auburn	871,G863	CRI&P
Mount Ayr	1217,G1232	$^{\mathrm{CB\&Q}}$
Mount Ayr		Weather Bur.
Mount Clara		CB&Q
Mount Etna, Adams Co.		IaGS
Mount Pleasant, Keokuk line	723 G710	CM&StP CB&Q
Mount Pleasant, main line	725,0719	CB&Q
Mount Pleasant		Weather Bur.
Mount Sterling6		CB&Q
Mount Union		CB&Q
Mount Vernon	843,G843	C&NW
Mount Vernon	G847	Weather Bur.
Mount Vernon, top of rail on east line sec. 7, Tp. 82, R. 5,	000.41	CDATO
30 feet north of NE. cor. of SE. ¼ of NE. ¼ sec. 7	803.41	CR&IC
Mount Vernon, top of rail on east line sec. 8, Tp. 82, R. 5, at NE. cor. of SE. ¼ of NE. ¼ sec. 8	827,91	CR&IC
Mount Vernon, bench mark, mark on cement sidewalk at	021.91	CIMITO
SE. cor. street intersection at west end of paving in		
Mount Vernon	867.32	CR&IC
Mount Vernon, paha at	932	IaGS
Mount Zion, B.M. top of monument M.P. 44	610.71	CRI&P
Mount Zion, B.M. top of monument M.P. 45	661.44	CRI&P
Mount Zion, top of rail, center of depot	696.2	CRI&P
Mount Zion, B.M. SW. cor. south tank pedestal; jct. Keo-	20212	CDTOD
sauqua branch	696.16	CRI&P
Mount Zion, B.M. top of monument M.P. 47	630.70	CRI&P
branch	719.96	CRI&P
Mount Zion, B.M. top of monument M.P. 2	701.11	CRI&P
Moville	1147	C&NW
Murphy	832	M&StL
Murray	1214,G1216	CB&Q
Muscatine	548,G552	CM&StP
Muscatine, Mississippi river, low water	G531	Miss. Riv. Com.
Muscatine, Mississippi river, high water, 1881	G547	Miss. Riv. Com.
Muscatine	557.72	CRI&P CD&M
Muscatine, junction with City Railway lines, top of rail	557.73 556.98	CD&M
Muscatine Bridge, 1.5 miles above, 1 meter north of hedge	500.50	ODan
fence on property of Capt. John W. Anderson, 1 meter		
east of east line of John Berry's property, 3 meters 34°		
to 12-inch wild-cherry tree; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 141/4). (Cap of		
iron pipe had been removed; the pipe was removed, the		
line tied to copper bolt, and then pipe was put in place	505.60	D 11 500
again, but no new elevation for top established)	595.68	Bull. 569
Muscatine, 7.5 miles south of, 22 meters south of gate leading to Esquire Walton's house, 8 meters north of		
wagon road, 15 meters from edge of river bank; top of		
stone with block over it and three marking stakes set 3		
feet off and three small black-locust trees blazed near		
by; top of stone is about 1 foot below surface of ground	,	
(U.S.C.E.p.b.m. 25)	<b>544.42</b> 8	Bull. 569
Muscatine, 7 miles below, on brick foundation of E.		

	ELEVATION	
STATION  Beatty's dwelling on right bank of river, in east side NE.	FEET	AUTHORITY
cor. foundation; copper bolt, marked "U.S.P.B.M." (U.S.C.E.p.b.m. 26)	548.539	Bull. 569
(U.S.C.E.p.b.m. 26)  Muscatine, on brick chimney of Hershey's lower sawmill, on middle of east face of chimney, about 3 feet above ground; copper bolt, marked "U.S.P.B.M." (U.S.C.E.		
p.b.m. 27)	550.455	Bull. 569
(U.S.C.E.p.b.m. 28)	551.964	Bull. 569
of wagon bridge in NE. cor. abutment; copper bolt, marked "U.S.P.B.M." (U.S.C.E.p.b.m. 29)	552.417	Bull. 569
E.p.b.m. 30)	553.595	Bull. 569
Muscatine, 5 miles NE. of, on abutment of CRI&P RR bridge over Sweetland creek, in west end of north abutment; copper bolt, marked "U.S.P.B.M." (U.S.C.E.		
p.b.m. 31)	552.814	Bull. 569
RR, in face of rock where it has been blasted off for railroad bed, 4 feet above track, 20 feet north of center of track, 740 meters west of bridge 77; copper bolt,		<b></b>
marked "U.S.P.B.M." (U.S.C.E.p.b.m. 32)		Bull. 569
stadia) back of bench mark 138/2, in low ground on prairie, 40 meters west of small lake, 50 meters north of cultivated piece of ground which rises about 5 feet higher than prairie, midway between two old wagon roads that join 15 meters south; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 138/2): Copper bolt	532.81	Bull. 569
Cap on pipe	;	
Cap on pipe	545.14 549.16	Bull. 569
Muscatine, Copperas creek, in open spot 100 meters below mouth of, 30 meters back of narrow island whose head is 100 meters above, mouth of creek, 15 meters above fence corner, 4 meters east of wagon road, 80 meters below dwelling house on main bank of river; copper bolin tile surmounted by iron pipe (U.S.C.E.b.m. 139/1):	7 1 3 3	
Copper bolt	539.86 543.87	Bull. 569
Muscatine, 1 mile below head of Blanchard Island, on ridge 100 meters from river, 60 meters from slough on west 25 meters from small slough on east; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 139/2):	·	
Copper bolt	- 5 <b>4</b> 5.86 t	Bull. <b>569</b>
trees; 204 meters north of south line of sec. 22, 156 meters west of levee; copper bolt in tile surmounted by	3	

## MUSCATINE

	ELEVATION	
STATION	FEET	AUTHORITY
iron pipe (U.S.C.E.b.m. 139/3): Copper bolt	539.81	Bull. 569
Cap on pipe	543.84	
Muscatine Island, along east-west hedge on property be-		
longing to R. F. Parmelee, 12.5 meters 90° to center SE. 4 sec. 21 along hedge; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 139/4):		
Copper bolt	547.42	Bull. 569
Cap on pipe	<b>551.</b> 39	
Muscatine, in lower part of, on ridge between two sloughs, 7 meters west of one slough and 12 meters east of an-		
other slough, 100 meters above their junction, 530 meters		
from river bank, 486 meters from bench mark 140/2;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
140/1): Copper bolt	538.41	Bull. 569
Cap on pipe	542.44	Dam. ooc
Muscatine, in lower part of, north of lumber yards, on		
side hill in meadow belonging to Weltz, 58 meters north		
of Bowling Green road along north-south fence; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
140/4):		
Copper bolt	644.85	Bull. 569
Cap on pipe	648.88	
stone foundation; cut (U.S.C.E. high-water mark of		
1881)	548.04	Bull. 569
Muscatine, top of NE. cor. west abutment of Front St.		
wagon bridge, about 50 meters NE. of station (U.S.C.E.	549.71	Bull. 569
b.m.)	549.71	Dun. 509
elevation of high water of 1892	549.19	Bull. 569
Muscatine SE cor east pier on north side of railroad		
track, Muscatine high bridge; top of stone (U.S.C.E.	552.03	Bull. 569
track, Muscatine high bridge; top of stone (U.S.C.E. b.m., city b.m.)  Muscatine, on lower pier of third pair of tubular piers	002.00	<b>D</b> an. 000
from Illinois side of Muscatine wagon bridge; high-		
water mark of 1892	548.95	Bull. 569
Muscatine bridge, 1.5 miles above, in timber 80 meters from river bank, on main bank, about 0.25 mile below		,
head of Island 334: copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 141/2):		
Copper bolt	542.84	Bull. 569
Cap on pipe	. <b>546.</b> 89	
south right-of-way fence of CRI&P Rv. 192 meters west	•	
of bridge 93, 18 meters west of switch where siding		
runs to tile factory, 14.5 meters south of railroad track; copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 141/3):	•	
Copper bolt	542.57	Bull. <b>569</b>
Cap on pipe	. 546.60	
fence, on property of Capt. John W. Anderson, 1 meter	)	
east of east line of John Berry's property. 3 meters 34°		
to 12-inch wild-cherry tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 141/4):		
mounted by iron pipe (U.S.C.E.b.m. 141/4):	EOE 69	Dull 580
Cap on pipe		Bull. 569
Muscatine Island 331, opposite foot of 0.25 mile south	1	
of river, on line of north-south fence, 30 meters above	•	
fence corner at foot of bluff; copper bolt in tile sur	-	

	ELEVATION	
Station	FEET	AUTHORITY
mounted by iron pipe (U.S.C.E.b.m. 142/2):		
Copper bolt	563.84	Bull. 569
Cap on pipe	567.85	
30 meters below small creek crossed by railroad bridge		
78, 5 meters east of SE. cor. house, 1 meter east of large		
apple tree; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 142/3): Copper bolt	569.33	Pull 560
Cap on pipe	573.37	Bull. 569
Mystic	906	ISU
Mystic		CM&StP
Mystic, crossing over CB&Q	948 563	CM&StP
Nahant	1044	CRI&P FtDDM&S
Napier, T. 83 N., R. 25 W., NW, cor, sec. 36; spike in	2011	1 0001100
fence post marked "U.S.B.M. 1049"	1,047.96	Bull. 569
Napier, T. 83 N., R. 25 W., SE. cor. sec. 25; spike in telephone pole, marked "U.S.B.M. 1040"	1 000 76	711 500
Nashua	1,038.76 971.G968	Bull, 569 IC
Nashville	715	C&NW
National, Clayton Co., T. 94 N., R. 3 W., SW. 1/4 sec. 8,		
NW. cor. schoolhouse yard; iron post stamped "699	700 025	D11 #40
DBQ''	700.235	Bull. 569
schoolhouse yard; iron post stamped "1110 DBQ"	1,111.436	Bull. 569
National, Hamilton Co.	1100	FtDDM&S
Nebraska City Junction	928,G923	$^{\mathrm{CB\&Q}}$
Nebraska City Junction, 1.25 miles south of station, 384 feet west of house occupied by Johnson Gibson, 35 feet		
north of north end of farm gate, 46 feet east of railway;		
copper bolt in bench-mark stone surmounted by iron pipe		
(Û.S.C.E.p.b.m. 326):	015 055	TD 11 7700
Cap on pipe	915.877 $919.900$	Bull. 569
Nebraska City Junction, 3,844 feet north of station, 45	313.300	
feet east of railroad, on sand knoll; copper bolt in		
bench-mark stone surmounted by iron pipe (U.S.C.E.		
p.b.m. 327): Copper bolt	919.664	Bull. 569
Cap on pipe	923.689	Dun. 000
Nebraska City Junction, 3,884 feet north of station, 45		
feet east of CB&Q RR track, on sand knoll; top of cap	002 600	D11 500
of iron pipe marked "Missouri River Commission" Nebraska City Junction, 600 feet north of station, 40 feet	923.689	Bull. 569
west of CB&Q RR tracks: iron post stamped "Prim.		
Trav. Sta. No. 1, 924, Adj, 1903''	922.450	Bull. 569
Nebraska City Junction, 2 miles west of, 40 feet south of		
crossing, 30 feet east of center of road; iron post stamped "923, Adj, 1903"	922.291	Bull, 569
Neils	1290	CRI&P
Nemaha	1322,G1318	CM&StP
Neoga		WRR
Neola Neola, crossing, CM&StP	1090,G1100	CRI&P CRI&P
Neola, in first concrete bridge abutment west of town (CRI	1000	Olvical
&P Ry bridge 483), on SE. side, 5 feet below level of		
track; aluminum tablet	1,088.890	Bull. 569
west of street, 10 feet south of track, iron post	1,095.820	Bull. 569
Neola, in front of CRI&P Ry station; top of rail		Bull. 569
Neola		CM&StP

Christian	ELEVATION	A
STATION CPT P	FEET	AUTHORITY
Neola, crossing CRI&P		CM&StP
Neola Nepas	G1111 802	Weather Bur.
Nevada	990	CRI&P CRI&P
Nevada, crossing under C&NW	95 <b>4</b>	CRI&P
Nevada	1003.G1001	C&NW
Nevada, T. 83 N., R. 23 W., SE. cor. sec. 4, 3.5 miles	2000,02002	001111
west of Nevada, 4.5 miles east of Ames, NW. cor. cross-		
roads; iron post stamped "967"	965.858	Bull. 569
Nevada, T. 84 N., R. 23 W., NE. cor. sec. 28, SW. cor.		
Nevada, T. 84 N., R. 23 W., NE. cor. sec. 28, SW. cor. crossroads, 7 feet south of corner fence post; iron post		
stamped ''986''	985.177	Bull. 569
Nevada, T. 84 N., R. 23 W., SW. cor. sec. 27, NE. cor. crossroads; copper nail in base of telephone pole at		
crossroads; copper nail in base of telephone pole at		
fence corner, marked "1000.8"	999.81	Bull. 569
Nevada, 1 mile north by 3.5 miles west of, T. 84 N., R. 23		
W., SE. cor. sec. 33, on east-west township line between Milford and Grant townships, 60 feet NW. of center of		,
crossroads; copper nail in base of telephone pole, marked	989.91	Bull. 569
Nevada, top of north rail of C&NW Ry crossing	978.1	Bull, 569
Nevinville, Adams Co.	1300	IaGS
New Albin	651 G646	CM&StP
New Albin schoolhouse, 22 feet NE. of NE. cor.; iron	001,0010	CDICOCL
post stamped "652 DBQ"	652.977	Bull. 569
New Albin, 100 meters above lower end of Island 135, on		
ridge, 100 meters above lower end of timber, 50 meters		
back from shore, 200 meters below point opposite ware-		
house at Tippets Landing; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 209/3):		
mounted by iron pipe (U.S.C.E.b.m. 209/3):		
Copper bolt	622.09	Bull. 569
Cap on pipe	626.05	
New Albin, 75 meters east from east bank of Lost Slough,		`
in low ground, in small bunch of willows; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 209/4):		
Copper bolt	618.49	Bull. 569
Cap on pipe	622.45	Dun. 505
New Albin, opposite CM&StP Ry station; base of rail (U.	•	
S.C.E.b.m.)	648.53	Bull. 569
New Albin, top of city corner stone on west side of CM&		
StP Ry track, 2 blocks north of station and just north of		
grain elevator (U.S.C.E.t.b.m. 29, R. B)	650.12	Bull. 569
New Albin, top of pipe monument on State line between		
Iowa and Minnesota (U.S.C.E.t.b.m. 30, R. B)	648.74	Bull. 569
New Albin, top of city corner stone which is on Iowa-		
Minnesota State line, 35 meters west of pipe monument,		
8 meters east of east right-of-way fence of CM&StP Ry	648.06	Bull. 569
(U.S.C.E.t.b.m. 31, R. B)	040.00	Бин. 509
north of quarter corner on west side of sec. 33, at angle		
to south in road east, 16 feet north of telephone pole, in		
top of wooden peg; copper nail	936.73	Bull. 569
Newbern, T. 73 N., R. 21 W., at NE. cor. sec. 5 at SW.		
cor. crossroads, 2 feet east of corner post, in top of		
osage stump; copper nail	1,007.58	Bull. 569
Newbern, T. 74 N., R. 21 W., about 250 feet east of SW.		
cor. sec. 34, opposite T road south, 80 feet NE. of bridge over Long Branch creek; iron post stamped		
"Iowa, 904, 1913",	904.215	Bull. 569
Newbern, T. 73 N., R. 21 W., at SW. cor. sec. 3 in NE.		. Dan. 569
angle crossroads, 28 feet north by 24 feet east of cor.		
G,		

	ELEVATION	
Station	FEET	AUTHORITY
secs. 3, 4, 9 and 10, in SW. cor. churchyard, in sand-		
stone rock; bottom of chiseled square	999.22	Bull. 569
New Boston	643.5 $662.9$	AT&SF AT&SF
New Boston, square cut in NE. cor. bottom step NW.	002.9	Alast
New Boston, square cut in NE. cor. bottom step NW. abutment CB&Q bridge	664.95	AT&SF
New Boston, CB&Q track at crossing	G685	CB&Q
New Boston	97.2,G697	CB&Q
from shore 7.3 meters 94° 30′ to 8-inch locust tree 6.4		
from shore, 7.3 meters 94° 30′ to 8-inch locust tree, 6.4 meters 341° to 15-inch elm, 8.8 meters 281° to 30-inch		
elm tree; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 133/3):	E20.10	D-11 560
Cap on pipe	532.19 $536.12$	Bull. 569
New Boston, Ill., 1 mile below, on right bank, on back	000.12	
New Boston, Ill., 1 mile below, on right bank, on back edge of slough 892.4 meters back of preceding bench mark, 7.5 meters 279° 30′ to 12-inch black-oak tree, 9.7 meters 28° 30′ to 12-inch elm tree, 9.9 meters 205° 30′ to 12-inch elm tree, 9.0 meters 205° 30′ to 12-inch elm tree, 9.0 meters 205° 30′ to 12-inch elm tree, 9		
mark, 7.5 meters 279° 30′ to 12-inch black-oak tree, 9.7		
to 8-inch ash tree; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 133/4):		
Copper bolt		Bull. 569
Cap on pipe	533.53	M&StL
Newcom, M.P. 440	1200.G1202	IC
Newell	1265,G1264	ĨČ
Newhall		CM&StP
New Hampton	1164,G1159	CM&StP CM&StP
New Hampton, crossing CGW New Hampton 11 New Hampton, crossing CM&StP	50.7.G1159	CGW
New Hampton, crossing CM&StP	1159.6	CGW
New Hartiord	893,G895	IC
New Liberty	797,G797	CRI&P CB&Q
New Market		CB&Q
Newport	730,G723	M&StL
New Providence hill		IaGS
New Sharon	870,G859 935	M&StL M&StL
Newton		CRI&P
New Virginia		CB&Q
New Virginia, South river at CB&Q bridge north of	914	IaGS
Nichols, Burlington line	628	CRI&P CRI&P
Niles	1097	FtDDM&S
Nira	736	CRI&P
Nixon, Dallas county	893.56	DM&CI
Nobleton, B.M. top of monument M.P. 345	$656 \\ 931.56$	$^{ m CB\&Q}_{ m CRI\&P}$
Nobleton, B.M. top of monument M.P. 346	943.41	CRI&P
Nobleton, B.M. top of monument M.P. 346 Nobleton, B.M. top of monument M.P. 347	944.92	CRI&P
Nobleton, B.M. top of monument M.P. 348	962.48	CRI&P
Nobleton, top of rail, center of depot	983.7 956.00	CRI&P CRI&P
Nobleton, B.M. top of monument M.P. 350	934.29	CRI&P
Nobleton, 4 miles south, 1 mile west of, T. 78 N., R. 22		
W., 530 feet west of quarter corner on north side sec. 3,		
and 40 feet south of road, on concrete post; bronze		
tablet stamped "Prim. Trav. Sta. No. 26-L.S1924- Iowa" marked "895.8"	895.828	USGS
Nobleton, reference mark, 57 feet west and 7 feet north		

Station	ELEVATION FEET	A TIMELODING
of "L.S. No. 26", in root on north side of 30-inch maple	FEET	AUTHORITY
tree; copper nail and washer	893.22	USGS
Nobleton, T. 78 N., R. 22 W., 440 feet east of cor. secs. 2 and 3, on north side of, T road south, on west end of south railing of concrete highway bridge over Camp creek; chiseled square, marked "825.2"	825.20	USGS
Nobleton, T. 79 N., Rs. 21 and 22 W., near corner, on south side of secs. 31 and 36, 25 feet north and 30 feet west of T road north, top of east end of concrete foundation of gasoline pump; chiseled square, marked		0202
Nobleton, T. 78 N., R. 22 W., at NE. cor. sec. 1, 30 feet south and 20 feet west of crossroads, 5 feet south of	901.92	USGS
fence corner, top of concrete wall; chiseled square,		
marked ''925.7',	925.71	USGS
Nodaway Noels	634	CB&Q
Noels, crossing CM&StP		CRI&P CRI&P
Noels, crossing CRI&P, union station	645.G636	CM&StP
Nora Springs or Nora Junction, union station with CM&	010,000	OMMODIA
StP and crossing	10 <b>64.</b> G1062	CRI&P
Nora Springs	1058.G1063	CM&StP
Nora Springs Junction, union station with CRI&P	1064	${ m CM\&StP}$
Nordness	1031,G1035	CRI&P
Nordness, intersection of wagon roads	1031	USGS
Nordness, 0.5 mile south of, T. 97 N., R. 8 W., NE. 1/4 NW.		
1/4 sec. 15, 3 rods north of crossing and road intersection,		
2 feet east of right of way of CRI&P Ry; iron post		
stamped ''1059 DBQ''	1,058.982	Bull. 569
Norman		M&StL
Norris	870,6864	CRI&P
North Bellevue, see Bellevue, North Northboro10	SO 9 01047	CTD & C
Northboro, Iowa-Mo. state line	1090 5	CB&Q
North Buena Vista, Clayton Co., T. 91 N., R. 1 W., south	1020.0	CB&Q
side sec. 32, junction of John Richmond's road with		
main wagon road; iron post stamped "1181 DBQ"	1,181.159	Bul. 569
North Buena Vista, 0.5 mile below, on right of way of	1,101.100	E 411 000
CM&StP Ry, 25 meters below lower end of railroad bridge		
194, 7 meters from center of track toward bluffs; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
187/3):		
	624.80	Bul. 569
Cap on pipe	628.75	
North Buena Vista, opposite CM&StP Ry station; base of	60E 20	D-1 560
rail (U.S.C.E.b.m.)  North Buena Vista, 2.6 miles above, on line of CM&StP	625.32	Bul. 569
Ry track, 16 meters below center of bridge 204K, at		
fence on bluff side, 11 meters from center of track; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
188/4):		
Copper bolt	617.11	Bul. 569
Cap on pipe	621.11	
North Buena Vista, 2 miles below, 1,575 feet below section		
post 11-12, 1,411 feet below bridge 188K, 775 feet above		
Dry Hollow Bridge 186K, on line of CM&StP Ry, 10		
feet south from center, on ledge of rock marked "U S"; highest point in square (U.S.C.E.t.b.m. 267)	627.696	D-1 500
North Russe Viete 0.8 mile helew 1.840 fact helew mile	047.090	Bul. 569
North Buena Vista, 0.8 mile below, 1.840 feet below mile- post 94-67, 590 feet below bridge 194, on bluff side of		
track, 15 feet from center, on embedded bowlder, marked		
"UDS"; highest point in square (U.S.C.E.t.b.m. 265)	628.161	Bull. 569
one infuse home in plante (orproversioning 500)	001	Dair, 009

Station	ELEVATION	A
-	FEET	AUTHORITY
North Buena Vista, SE. cor. R. & E. Meuth's general store, 6 inches from south face and 4.3 feet above ground, in		
wall marked the same as p.b.m. 247, that is "U.S. P.		
B.M.''; copper bolt (U.S.C.E.p.b.m. 255)	627.519	Bull. 569
North Buena Vista, 82 feet above station and 35 feet above	1	
road crossing, on bluff side of track, 9 feet from center,		
about 2.5 feet above grade, on hard ledge of rock,		
marked "U_S"; being highest point in square (U.S.C.	607 107	D-11 500
E.t.b.m. 264)	627.197	Bull. 569
196, 2,986 feet above milepost 93, 15 feet toward the		
bluff from center of CM&StP Ry track, on upper one of		
three large prominent pieces of rock lying but a few		
feet from each other, marked "UDS"; highest point in	22-221	T 11 -40
square (U.S.C.E.t.b.m. 262)	625.684	Bull. 569
of bridge 204K on right of way of CM&StP Ry at		
of bridge 204K, on right of way of CM&StP Ry, at fence on bluff side, 36 feet from center of track; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 253		
and 254):		
Copper bolt	617.115	Bull. 569
Cap on pipe	621.114	CATO CATO
North Buena Vista North English		CM&StP CM&StP
North Liberty, top of rail on south line of sec. 1, Tp. 80,	104,0100	CHRON
R. 7, 567 feet west of S. ¼ cor. sec. 1	801.80	CR&IC
North Liberty, bench mark, top of water table on east side		
of center pier in south wall of substation	773.50	CR&IC
North Liberty, top of rail on south line sec. 12, Tp. 80, R.	700 10	an e ta
7, SW. cor. of SE. ¼ of SE. ¼ of sec. 12 North Liberty, top of rail on south line sec. 13, Tp. 80, R.	769.10	CR&IC
7, on SW. cor. of SE. ¼ of SE. ¼ of sec. 13	761.30	CR&IC
North McGregor, changed to Marquette		VV
North Number 3	977	ISU
Northwood	1236	M&StL
Northwood		CRI&P Weather Bur.
Norwalk		CB&Q
Norwalk, North River at CB&Q bridge south of	806	IaGS
Norway	796,G792	C&NW
Norwich	1141,G1142	$^{\mathrm{CB}\&\mathrm{Q}}$
Norwood, Lucas Co., T. 73 N., R. 22 W., at quarter corner		
between secs. 17 and 18, at center of crossroads, on top	1,006.87	Bull. 569
of section stone; chiseled square	1,000.07	Dun. 509
side of sec. 18, at NE. angle of crossroads, at east end		
of culvert, in top plank: copper nail	994.67	Bull. 569
Norwood, T. 73 N., R. 23 W., 0.25 mile north of SW. cor.		
sec. 13, at NE. angle of T road east, in root of 8-inch	7 004 70	D 11 500
elm tree; copper nail	1,034.10	Bull. 569
corner on south side of sec. 14, opposite center of T		
road south, at SE, cor, school vard, 2 feet south of cor-		
road south, at SE. cor. school yard, 2 feet south of corner post; iron post stamped "Iowa, 1037, 1913"	1,037.519	Bull. 569
Norwood, south end of concrete walk at church	1,040.60	Bull. 569
Norwood, 1 mile north of, at SW. cor. crossroads, in	•	
churchyard, at south side, east end of concrete walk, painted square	1,032.85	Bull. 569
Norwood, T. 73 N., R. 23 W., at NE. cor. sec. 10, in SW.	1,002.00	Dutt. 909
angle of crossroads, opposite mile board, "Lucas 10,		
Indianola 19, Des Moines 35," 4 feet south of telephone		

STATION	ELEVATION FEET	AUTHORITY
pole; iron post stamped "Iowa, 1023, 1013" (moved, 1917, 18 ft. SW. of former location at same elevation) Norwood, Tps. 73 and 74 N., R. 23 W., at cor. secs. 2, 3, 34, and 35, on line between Lucas and Warren counties, at center of T road east, in top of section stone; bottom of	1,023.127	Bull. 569
Norwood, T. 73 N., R. 23 W., at quarter corner between	1,001.44	Bull. 569
secs. 23 and 26, at center of crossroads, on section stone; chiseled circle  Norwood, T. 73 N., R. 23 W., at center of sec. 35, opposite T road west, 4 feet north of osage post, on line with east-west fence on east side of road; iron post stamped		Bull. 569
"Towa, 1030, 1913"  Norwood, T. 72 N., R. 23 W., north center of sec. 2, on west side of road, 16 feet south of east-west fence line,	1,029.841	Bull. 569
in west end of plank drain; copper nail	1,036.18	Bull. 569
Nugent	791,G783	M&StL
Numa	1026,G1037	CRI&P
Nuttings	580.20	CD&M
Nutting Farms	574	DRI&NW
feet east of SW. cor. sec. 30	782.40	CR&IC
SW. cor. of SE. ¼ of SE. ¼ of sec. 24	793.40	CR&IC
form		$\operatorname{CR\&IC}$
Oak Grove		${f M\&StL}$
Oakland		$\mathbf{CRI\&P}$
Oakland Mills		$^{\mathrm{CB\&Q}}$
Oakley, T. 73 N., R. 21 W., 0.25 mile east of NW. cor. sec. 20, at SW. cor. 'T road south, 250 feet west of school-		CB&Q
house, at base of corner post; top of stone	967.06	Bull. 569
wing wall of culvert; painted square		Bull. 569
Oakley, T. 73 N., R. 22 W., at quarter corner on north side of sec. 24, at SE. angle of T road south, 6 feet east of		
corner post; iron post stamped "Iowa, 933, 1913" Oakley, T. 73 N., R. 22 W., near quarter corner on north side of sec. 23, at SE. cor. T road east, at extreme NW.		Bull. 569
cor. Juergen's yard, in root of maple tree; copper nail Oakley, T. 73 N., R. 22 W., about 0.1 mile north of SW. cor. sec. 14, at T road east, on bridge over Whitebreast		Bull. 569
creek, near SE. cor. bridge floor; top of bolt	838.10	Bull. 569
culvert, in top of; copper nail Oakley, T. 73 N., R. 22 W., at quarter corner on east side of sec. 17, in SW. angle at turn in road, just inside of fence, 3 feet SW. of corner post; iron post stamped "Towa, 963, 1913".		Bull. 569
		Bull. 569
Oaks	964	ISU
Oakton		CM&StP
Oakville		M&StL
Oasis		CRI&P
Ocheyedan Mauri Occasia county	T999'C4T99T	CRI&P
Ocheyedan Mound, Osceola county	1670	Iags
Odebolt		$\begin{array}{c} \text{C\&NW} \\ \text{CGW} \end{array}$
Oelwein, crossing CRI&P		CGW
Oelwein		CRI&P
Остион	7009,07048	OMICE

	ELEVATION	
Station	FEET	AUTHORITY
Oelwein, north wall of post office, in coping stone; aluminum tablet stamped ''1044 DBQ''		
inum tablet stamped '1044 DBQ''	1,045.347	Bull. 569
Oelwein, 5 miles east of, center Scott Tp.	1143	IaGS
Ogden C&NW Ogden	1099,61100	M&StL
Orden	1099,G1103	M&StL C&NW
Ogden, crossing M&StL	1097	C&NW
Orden, 3 miles south by 2 miles east of, at Marcy Center	2007	002111
school, NW. cor. sec. 22, Marcy Tp., in corner of school lot; iron post stamped 'Prim. Trav. Sta. No. 14, 1093'		
lot; iron post stamped "Prim. Trav. Sta. No. 14, 1093"	1,092.28	Bull. 569
Ogden, 4 miles south by 2 miles east of, at road crossing,		
NE. cor. sec. 28, Marcy Tp.; spike in base of telephone	1.077.10	T 11 F00
Ogden, 5 miles south by 2 miles east of, at road crossing,	1,075.12	Bull. 569
SW. cor. sec. 27, Marcy Tp.; spike in base of telephone		
pole	1,085.24	Bull. 569
Ogden, 6 miles south by 2 miles east of, at road crossing,	1,000.21	Dun. 505
SE. cor. sec. 33. Marcy Tp.: iron post stamped. "1088"	1,087.114	Bull. 569
Ogden, 7 miles south by 2 miles east of, at road crossing,	,	
SW. cor. sec. 3, Peoples Tp.; spike in base of telephone		
pole	1,108.50	Bull. 569
Ogden, 8 miles south by 2 miles east of, at road crossing,		
SE. cor. sec. 9, Peoples Tp.; spike in base of telephone	1 000 17	D-11 F00
ogden, 9 miles south by 2 miles east of, at road crossing	1,090.17	Bull. 569
near church, NE. cor. sec. 21, Peoples Tp.; iron post		
stamped "1072"	1,071.035	Bull. 569
Ogden, 10 miles south by 2 miles east of, at road crossing,	1,071.000	Dan: 000
SE. cor. sec. 21, Peoples Tp.; spike in base of telephone		
pole	1,021.78	Bull. 569
Ogden, T. 84 N., R. 27 W., west center of NW. 1/4 sec. 15,	•	
NE. cor. crossroads; chiseled square in top of stone,		
marked ''1111.7''	1,110.79	Bull. 569
Ogden, T. 84 N., R. 27 W., 0.2 mile north of center of sec.		
22, SE. cor. road forks east, 15 feet west of east fence		
line, 50 feet south of center of road forks; 8-penny nail		
about 1 foot above ground in south side of oak tree, marked "930.626"	929.73	Bull. 569
Ogden, T. 84 N., R. 27 W., near east center of SE, ¼ sec.	020.10	ъш. оф
Ogden, T. 84 N., R. 27 W., near east center of SE. 14 sec. 21, west side of road, top of hill, 200 feet south of bend		
in road to south, SE. cor. yard to house; spike in east		
side of trunk of hickory tree 1 foot in diameter, 1 foot		
above ground and marked "1088.2"	1,087.28	Bull. 569
Ogden, 1.5 miles north by 1.8 miles east of, T. 84 N., R. 27		
W., south center of SE. ¼ sec. 21, center of road forks		
south; chiseled square on top of corner stone, marked	1 007 50	D17 F.60
('1088.5')	1,087.56	Bull. 569
Ogden, 0.5 mile north by 2 miles east of, T. 84 N., R. 27 W., SW. cor. sec. 27, on east side of north-south road at		
T road west, near telephone pole; iron post stamped		
· "1064"	1,063.191	Bull. 569
Ogden, T. 84 N., R. 27 W., SE, cor. sec. 33 (near), SW.	2,000,202	
Ogden, T. 84 N., R. 27 W., SE. cor. sec. 33 (near), SW. cor. crossroads; chiseled square on top of west end of		
concrete drain under road south, marked "1081"	1,080.10	Bull. 569
Ogden, 1.5 miles south by 2 miles east of, T. 83 N., R. 27		
W., SE. cor. sec. 4. in NW. cor. T road north, SE. cor.		- 11
schoolhouse yard; iron post stamped "1082"	1,081.348	Bull. 569
OlafOlds		M&StL M&StL
Olin		CM&StL CM&StP
Olivet		CRI&P
<u> </u>	200,001	SIVIUI

CITA MY ANY	ELEVATION	A vimit on vimic
STATION  Olivet W 75 N P 17 W 0.95 mile porth of querter corner	PEET	AUTHORITY
Olivet, T. 75 N., R. 17 W., 0.25 mile north of quarter corner on south side of sec. 12, at railway crossing; top of rail Olivet, T. 75 N., R. 17 W., near quarter corner on east side	810.53	Bull. 569
of sec. 11, railway crossing; top of rail	817.51	Bull. 569
Ollie	789, <del>G</del> 782	M&StL
Olmitz, 2.5 miles north by 3.5 miles east of, T. 73 N., Rs.		
19 and 20 W., 18 feet west of the corner of secs. 18, 19,		
13, and 24, respectively, on line between Lucas and Monroe counties, in timber west of ravine, at corner of		
abandoned elbow road; iron post stamped "Iowa 842,		
1913''	842.197	Bull. 569
Olmitz, T. 73 N., R. 20 W., sec. 23, 0.25 mile north of		
quarter corner east side of, in SW. angle T road west, 16	E01.04	TO 11 500
inches west of corner post, in peg; copper nail	791.34	Bull. 569
mile east of center of, in SW. angle T road south, 4 feet		
west of corner post; iron post stamped "Iowa 986,		
west of corner post; iron post stamped "Iowa 986, 1913"; 0.5 mile north by 0.5 mile east of Tipperary,		
"Prim. Trav. Sta. No. 13"	986.636	Bull. 569
Olmitz, T. 73 N., R. 20 W., sec. 22, 0.25 mile north of quarter corner on west side of, 120 feet east of center of		
crossroads, in NW. cor. bridge floor; top of bolthead		
painted white	912.44	Bull. 569
painted white		
roads, I foot north of H. M. Taylor's mail box and mile		
board "Chariton 12, Belinda 3 miles," in top of peg;	957.14	Bull. 569
Olmitz T 73 N R 20 W 0.25 mile north of quarter	937.14	ъш. 509
Olmitz, T. 73 N., R. 20 W., 0.25 mile north of quarter corner on east side of sec. 30, in SW. angle of cross-		
roads, 3 feet east of corner post, in top of peg; copper		
nail	984.43	Bull. 569
Olmitz, T. 73 N., R. 20 W., NW. cor. sec. 32, at crossroads, in NE. cor. bridge floor; copper nail in plank	919.31	Bull. 569
Olmitz, T. 73 N., R. 20 W., about 0.35 mile east of center	919.01	Dun. 505
of sec. 32, in NE. angle of T road at road forks, 430		
feet north of bridge over North Cedar creek, 3 feet SE.		
of mail box, in top of peg; copper nail	839.52	Bull. 569
Olmitz, T. 72 N., R. 20 W., near quarter corner on east side of sec. 5, in NE. angle of road forks, 4 feet north of		
pasture gate (Baker's ranch); iron post stamped ''Iowa		
997, 1913"	996.704	Bull. 569
Olmitz, T. 72 N., R. 20 W., near SE. cor. sec. 5, at T road		
south, 25 feet east by 15 feet north of center of road	1 010 02	· TO11 E60
junction, in root of 8-inch hickory tree; copper nail Olmitz, T. 72 N., R. 20 W., in SW. cor. sec. 9, in NE. angle	1,012.93	Bull. 569
of T road north, top of concrete wing wall of culvert;		
bottom of chiseled square	989.95	Bull. 569
Olmitz, T. 72 N., R. 20 W., at SE. cor. sec. 7, on north side		
of road forks, 60 feet west of steel highway bridge over		
creek, 30 feet north of road junction; iron post stamped "Iowa 880, 1913"	880.422	Bull. 569
Omaha, Nebr., in SE. cor. post-office building at Fifteenth	300.122	2000
and Dodge Sts.; top of small projection on top surface		
of third course of stone above sidewalk (U.S.C.E. city	1 040 060	TO11 F.CO
Omaha, Nebr., on upper surface of water table of post-	1,040.969	Bull. 569
office building, cor. Fifteenth and Dodge Sts., 5.71 feet		
east of SW. cor. building; copper bolt in stone (U.S.C.E.		
p.b.m. 344)	1,039.932	Bull. 569
Omaha, Nebr., in top of pedestal block supporting first iron post on north side and west of cylindrical piers at west		
hose on norm sine and mest of childring hiers at mest		

<b>C</b>	ELEVATION	
STATION	FEET	AUTHORITY
end of Omaha and Council Bluffs wagon bridge; top of	001.450	D. II. 500
copper bolt in stone (U.S.C.E.p.b.m. 345)	981.478	Bull. 569
to river, 137 feet southeast of south cylindrical pier next		
to approach abutment at west end of UP Ry bridge over		
Missouri river, 39 feet east of east switch track of CB&Q		
Ry; copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 346 equals gage b.m.):		T. 11
Copper bolt		Bull. 569
Cap on pipe	975.612	
Omaha, Nebr., near, 3,976 feet east of east portal of UP Ry bridge over Missouri river, midway between two		
tracks of UP Ry; cross cut on top of stone post (U.S.		
C.E.t.b.m, 804)	1,005.933	Bull. 569
Omaha, East Junction	983	IC
Omaha, South Junction	980	IC
O'Malley	936.15	DM&CI
Onawa arossing C&NW		īc
Onawa, crossing C&NW	1052,G1052	IC C&NW
Onawa, in NE. ¼ sec. 4, T. 83 N., R. 46 W., on north side	1001,01001	Callin
of road along south side of quarter, 0.25 mile west of SE.		
cor. of quarter; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 135/2):		
Copper bolt	1,051.58	Bull. 569
Cap on pipeOnawa, T. 84 N., R. 46 W., 760 feet west of cor. secs. 25,	1,055.65	
26, 35 and 36, on south side of road, on premises of		
Oscar Tuttle; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 135/3):		
Copper bolt	1,049.00	Bull. <b>569</b>
Cap on pipe	1,053.05	
Onawa, 4 miles south of, 44 feet east of railway, on line		
with south side of E. S. Cody's farmhouse, 259 feet east		
of same; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E. p.b.m. 375):		
Copper bolt	1,042.268	Bull. <b>569</b>
Cap on pipe	1,046.291	2411.000
Onawa, 2.2 miles south of, 1,585 feet south of milepost 37,	,	
1,056 feet south of east-west road crossing, 45 feet east		
of railway; copper bolt in bench-mark stone surmounted		
by iron pipe (U.S.C.E.p.b.m. 376): Copper bolt	1 044 510	D11 F60
Cap on pipe	1,044.512 1,048.535	Bull. <b>5</b> 69
Onawa, at Iowa Ave. entrance of courthouse, 1.12 feet	1,040.000	
from face of sill, 0.43 foot from west jamb; copper bolt		
in west end of stone doorsill (U.S.C.E.p.b.m. 377)	1,052.436	Bull. 569
Onawa, in NW. cor. German Lutheran churchyard, corner	ŕ	
Granite and Maple Sts., 3 feet from alley fence, 3 feet		
from SW. cor. of a stable; copper bolt in bench-mark		
stone surmounted by iron pipe (U.S.C.E.p.b.m. 378 equals 134/3):		
Copper bolt	1,047.662	Bull. 569
Cap on pipe	1,051.727	Duii. 000
Onawa, 2.2 miles north of, 810 feet north of milepost 41,	-,	
180 feet north of north end of railway bridge 40, 44 feet		
east of C&NW track; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 379):	1 040 050	D.,11 #00
Cap on pipe	1,048.252 $1,052.252$	Bull. 569
Onawa Junction, new	1,052.252	IC
Onawa Junction, old location		ĬČ

	ELEVATION	
STATION	FEET	AUTHORITY
Oneida	1047	CM&StP
Oneida, crossing CGW	047.G1048	· CM&StP
Oneida108	50.2.G1049	CGW
Oneida, crossing CM&StP1	.051,G1051	CGW
Oneida, crossing M&O1	.047.G1048	CM&StP
Onslow	918,G907	C&NW
Ontario1	.002,G1001	C&NW
Ontario, south edge of, T. 84 N., R. 24 W., SW. cor. sec. 32,	,	
in NE, corner of road forks at road north; copper nail		
in root of willow tree, marked "998.9"	997.89	Bull. 569
Ontario, just east of station, at C&NW Ry crossing; top		
of south rail	1,000.6	Bull. 569
Ontario, 0.5 mile north of, T. 84 N., R. 24 W., west center	,	
of sec. 32, east side of north-south road at T road west;		
copper nail in base of butternut tree, marked "992.96"	991.99	Bull. 569
Ontario, highway bridge over Onion creek, spike head in		
NW. cor. flooring	933.49	Bull. 569
Ontario, T. 84 N., R. 24 W., near NW. cor. sec. 29, north		
end of tile drain under private road east, on east side of		
north-south road; painted square on top of, marked		
"986.8"	985.79	Bull. 569
Ontario, T. 84 N., R. 24 W., east center of sec. 19, SW. cor.		
road at T road south, in base of 3-foot oak tree; copper		
nail, marked ''953.0''	951.98	Bull. 569
Ontario, T. 84 N., R. 24 W., center of sec. 19, center of		
T road north at schoolhouse; painted square cut in top of stone corner, marked "994.2"	000 10	
of stone corner, marked "994.2"	993.18	Bull. 569
Oralabor	965	FtDDM&S
Oralabor		C&NW
Oran		CGW
Orange City	1411,01412	C&NW
Orchard	1946 01944	IC
Orient		CB&Q
Orient SE 1/ 200 1 T 74 N D 20 W	1079	IaGS IaGS
Orient, SE. ¼ sec. 1, T. 74 N., R. 30 W	1019	
Orleans		$\begin{array}{c} { m CGW} \\ { m CRI\&P} \end{array}$
Orrton, M.P. 487		IC
Orson		C&NW
Ortonville		CM&StP
Orthogille 30 feet SE of quarter corner north side of sec	,	0-11170
35, T. 79 N., R. 27 W., 4 feet south of corner fence post; iron post stamped "1037"		
iron post stamped "1037"	1,035.985	Bull. 569
Osage11	.71.8.G1169	CGW
Osage, crossing IC	G1168	CGW
Osage	1172	IC
Osage, crossing CGW	1172	IC
Osage	G1184	Weather Bur.
Osborne, Clayton county	751,G750	CM&StP
Osborne, at CM&StP Ry crossing; top of rail	753.0	Bull. 569
Osceola, main line	1137,G1137	CB&Q
Osceola, Des Moines line	1141.7	$^{\mathrm{CB}\&\mathrm{Q}}$
Osceola	G1132	Weather Bur.
Osceola, base of Hertha limestone NW. cor. sec. 6, T. 72		
N., R. 25 W.	1012	IaGS
Osgood	1235	CRI&P
Oskaloosa—Subgrade of track opposite center of depot	825.5	CRI&P
Oskaloosa, crossing CB&Q	823	CRI&P
Oskaloosa, crossing M&StL	803	CRI&P
Oskaloosa	832.5	CB&Q
Oskaloosa, crossing CRI&P	824	CB&Q
Oskaloosa, crossing M&StL	836	CB&Q

	Er my amiosi	
STATION	ELEVATION FEET	AUTHORITY
Oskaloosa		M&StL
Oskaloosa, crossing over CRI&P	840	M&StL
Oskaloosa, crossing CRI&P track	819	M&StL
Oskaloosa, crossing CB&Q	849	M&StL
Oskaloosa'		Weather Bur.
Ossian		CM&StP
Ossian, crossing CRI&P	1255,01260	CM&StP
Ossian	1257,G1271	CRI&P CRI&P
Ossian, sec. 11, T. 96 N., R. 8 W., at Catholic Church, east	1250	Cular
side of north-south road, north side of east-west		
road; iron post stamped "1263 DBQ"	1.263.219	Bull. 569
Osterdock	636,G635	CM&StP
Otero	780	CRI&P
Otho	1131,G1132	M&StL
Otis	721	C&NW
Otley, B.M. top of monument M.P. 323.	879.74	CRI&P
Otley, B.M. top of monument M.P. 324	887.98	CRI&P
Otley, B.M. top of monument M.P. 325	896.54	CRI&P
Otley, top of rail, center of depot	896.53 2082 2 802	CRI&P CRI&P
Otley, B.M. top of monument M.P. 327	906.12	CRI&P
Otley, B.M. top of monument M.P. 328	892.38	CRI&P
Otley, T. 77 N., R. 19 W., SW. cor. sec. 14, T corner; cor-		02.002
ner stone in center of road	887.55	Bull. 569
Otley, T. 76 N., R. 19 W., SE. cor. sec. 13, in north root		
of large cottonwood tree at end of road; 40-penny nail	902.02	Bull. 569
Otley, T. 77 N., R. 18 W., 0.5 mile north of SE. cor. sec.		
18, south side of east and west road, in north root of 10-	070.00	D 17 500
inch soft-maple tree; 40-penny nail	873.02	Bull. 569
17, on east side of north and south road, in SW. root of		
soft-maple tree 30 inches in diameter, T corner; 40-		
penny nail	853.82	Bull. 569
Otley, T. 77 N., R. 18 W., SE. cor. sec. 17, in SE. cor.	000.00	
Bethel Church yard, 35 feet SE. of front entrance of		
church; iron post stamped "860 Iowa"	858.727	Bull. 569
Otley, T. 77 N., R. 19 W., 0.5 mile south of NW, cor. sec.		
9, at T road corner, east of north and south road, near		
residence of Arie Vriezelaar, in line with center of east		
and west road, 3 feet west of fence; iron post stamped	903.700	Bull. 569
Otley, south side of main street, T. 77 N., R. 19 W., 0.38	903.700	ъш. эоз
mile west of NE. cor. sec. 22, at T road near east edge		
of village, 15 feet north of fence line, 425 feet east of		
railroad; iron post stamped "884 Iowa"	882.641	Bull. 569
Otley, in front of CRI&P Ry station; top of rail	896.0	Bull. 569
Otley, T. 77 N., R. 19 W., 0.25 mile north of SW. cor. sec.		
25, south of Pella-Otley road, 24 feet east and 20 feet		
south of center of crossroads, 2 feet north of fence;		
iron post stamped "883 Iowa"	881.652	Bull. 569
Oto	1092,01095	IC
OttantoOtter Creek, Jackson Co	1025	CM&StP USGS
Otter Creek, middle Otter Creek Tp.	800	USGS
Otter Creek, NE. cor. Otter Creek Tp.	1080	USGS
Otter Creek, middle north side sec. 4, Otter Creek Tp	1050	USGS
Ottosen	1165	CRI&P
Ottumwa		CB&Q
Ottumwa		CM&StP
Ottumwa, crossing CB&Q		CM&StP
Ottumwa, crossing Wabash	648,G651	${ m CM\&StP}$

	ELEVATION	
STATION	FEET	AUTHORITY
Ottumwa, crossing CRI&P	G650	CM&StP
Ottumwa		Weather Bur.
Ottumwa, NW. cor. topmost stone on east end of north		
abutment of Vine St. highway bridge (U.S.C.E.b.m. 48)	644.66	Bull. 569
Ottumwa, above, on top and 0.5 foot from point of south end of concrete pier under east end of first girder from		
west end of CR&O bridge pier is first one east of west		
west end of CB&Q bridge, pier is first one east of west abutment (U.S.C.E.b.m. 79)	653.67	Bull, 569
Ottumwa, in top of west tube of second pier south of	000.01	Dun. 000
north or left bank, Blackhawk highway bridge (U.S.		
C.E.b.m. 80)		Bull. 569
Ottumwa, bottom of upstream end of third cross beam		
from south end of Market St. bridge (U.S.C.E.b.m. 82)		Bull. 569
Ottumwa, top of west side of second pier south of north or	247.00	TO 11 WAS
left bank of river, CM&StP bridge (U.S.C.E.b.m. 81)		Bull. 569
Ottumwa, bottom of downstream or east girder in south span of Wabash RR bridge (U.S.C.E.b.m. 83)	646.75	D11 #60
Ottumwa, bottom of east side of first transverse beam	040.75	Bull. 569
south of fourth tubular pier from north end of Vine St.		
south of fourth tubular pier from north end of Vine St. highway bridge (U.S.C.E.b.m. 84)	643.53	Bull. 569
Ottumwa, NW, cor, west wing of north abutment of Vine		
St. highway bridge (U.S.C.E.b.m. 85) Ottumwa, B.M. top of monument M.P. 74 (U.S.C.E.b.m.	644.54	Bull. 569
Ottumwa, B.M. top of monument M.P. 74 (U.S.C.E.b.m.		
47)	642.53	CRI&P
Ottumwa, B.M. top of watertable SW. cor. Leisy Brewing		ODT OD
Co.	649.86	CRI&P
Ottumwa, top of rail, center Union DepotOttumwa, B.M. top of monument M.P. 77	645.2 650.81	CRI&P CRI&P
Ottumwa, B.M. top of monument M.P. 78	648.90	CRI&P
Ottumwa, B.M. top of monument M.P. 79	650.31	CRI&P
Ottumwa, B.M. top of monument M.P. 80	654.29	CRI&P
Ottumwa, East	647	CB&Q
Ottumwa, South	. 640	$\mathbf{w}\mathbf{r}$
Ottumwa Junction		$\mathbf{CM\&StP}$
Ottumwa Junction, crossing CB&Q and CRI&P		CM&StP
Owasa		C&NW
OwegoOxford	-1070,G1073	CM&StP
Oxford Junction, main line	. 730,0739	CRI&P CM&StP
Oxford Junction, Monticello line	727 G727	CM&StP
Oxford Mills, M.P. 24	725.G713	CM&StP
Oyens	.1272,G1267	IC
Ozark, Jackson Co.	. 728	USGS
Pacific Junction		$^{\mathrm{CB\&Q}}$
Pacific Junction, 1.5 miles southwest of, on land owned by	7	
Charles Kroon, 32 feet east by 51 feet south of NW. cor	•	
NE. ¼ NE. ¼ sec. 32, T. 72 N., R. 42 W.; copper bolt in	1	
bench-mark stone surmounted by iron pipe (U.S.C.E p.b.m. 336 equals 117/3):	•	
Copper bolt	. 949.519	Bull. 569
Cap on pipe		Dan. 000
Pacific Junction, 4,455 feet north of railway crossing at		
1.151 feet south of railway bridge over old channel or		
Keg creek, 43 feet east of railway; copper bolt in	ı	
bench-mark stone surmounted by iron pipe (U.S.C.E		
p.b.m. 337):	054.000	D 11 500
Copper bolt	954.883	Bull. 569
Cap on pipe Pacific Junction, T. 72 N., R. 43 W., 40 feet south by 128	958.896	
feet east of NW. cor. sec. 31, on south side of east-wes	, t.	
road, in dooryard of Mrs. Lizzie Smith; copper bolt in	n.	
, assignment of the second of the sec	_	

	ELEVATION	
STATION	FEET	AUTHORITY
tile surmounted by iron pipe (U.S.C.E.b.m. 117/2):		
Copper bolt	951.94	Bull. 569
Cap on pipe	955.99	
NE. cor. sec. 12, on land owned by Alvin Lincoln, 1.25		
miles from river, on west side of north-south road; cop-		,
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
118/2):	070.00	70 11
Copper bolt	952.93	Bull. 569
Packard	956.99 958 G953	CRI&P
Packwood		CB&Q
Page Center12		CB&Q
Palisades, top of rail, center line of overhead bridge on		•
east line sec. 2, Tp. 82, R. 6, 345 feet north of NE. cor.	770.01	CDATO
of SE. ¼ of SE. ¼ sec. 2	776.91	CR&IC
feet south of NE. cor. sec. 12	786.21	CR&IC
Palmer		CRI&P
Palo		CRI&P
Palsville		CGW
Panama		CM&StP CM&StP
Paralta	827 G829	CM&StP
Paralta, junction switch	G828	CM&StP
Paris	929,G944	CRI&P
Parkersburg	9 <b>4</b> 9,G951	IC
Parkersburg, crossing C&NW	G960	IC
Parkersburg	947 960	C&NW C&NW
Parnell	854.G859	CM&StP
Paton	1106,G1101	M&StL
Pattee		DM&CI
Patterson		CRI&P
Patterson, Middle river at	827 1405 G1409	IaGS C&NW
Payne	928.7	CB&Q
Payne, T. 67 N., R. 42 W., near cor. secs. 7, 8, 17 and 18,	020	02.14
at NW. cor. inclosed pasture about 600 feet S. 6%°		
(mag.) E. from house owned by Moses Payne; copper		
bolt in tile surmounted by iron pipe (U.S.C.E. b.m.		
110/3): Copper bolt	903.86	Bull. 569
Cap on pipe	907.93	Buii. 000
		M&StL
Pekin	808	CB&Q
Pella, B.M. top of monument M.P. 314.	820.49	CRI&P
Pella, B.M. top of monument M.P. 315	860.63 865.54	CRI&P CRI&P
Pella, B.M. top of monument M.P. 316 Pella, B.M. top of monument M.P. 317	874.89	CRI&P
Pella, top of rail, center of depot, Bul. 569, elev.=878.0.8		CRI&P
Pella, B.M. NW. cor. water table of depot	879.80	CRI&P
Pella, B.M. top of monument M.P. 319	878.98	CRI&P
Pella, B.M. top of monument M.P. 320	880.61	CRI&P
Pella, B.M. top of monument M.P. 321 Pella, B.M. top of monument M.P. 322	873.51 875.54	CRI&P CRI&P
Pella, T. 76 N., R. 17 W., 0.5 mile south of NW. cor. sec.	010.01	OIVIGI
18, on east side of highway, 70 feet north of CRI&P Ry		
track, 12 feet east of center of highway; iron post		<u> </u>
stamped "856 Iowa"	854.548	Bull. 569
Pella, T. 76 N., R. 18 W., near NE. cor. sec. 14, center of roadway, railway crossing, south rail	870.7	Bull. 569
Touchay, Tammay Clossing, South Tall	010.1	ъш. 909

	ELEVATION	
STATION	FEET	AUTHORITY
Pella, T. 77 N., R. 18 W., 0.25 mile south of NE. cor. sec. 14, 170 feet east of T corner, in north root of large cot-		
ton wood tree; 40-penny nail	806.50	Bull. 569
Pella, T. 77 N., R. 18 W., 0.25 mile west of NE. cor. sec.		244.000
13, west side of north and south road, opposite stone	)	
house, in east root of maple tree 20 inches in diameter;		D 11 500
40-penny nail	<b>757.</b> 88	Bull. 569
NW. cor. sec. 22, T corner, in telephone post; three 40-		
penny nails	865.33	Bull. 569
Pella, T. 77 N., R. 18 W., 0.5 mile south by 0.3 mile west		
of NE. cor. sec. 23, west side of north and south road,		
100 feet NW. of T corner, 24 feet NE. of large oak tree, 5 feet east of north and south fence; iron post	835.085	Bull. 569
Pella, opposite CRI&P Ry station; top of rail	878.0	Bull. 569
Pella, SE, cor. Central College campus: iron post stamped		
''878 Iowa'' Pella, T. 76 N., R. 18 W., 0.5 mile south of SE. cor. sec.	87 <b>6.</b> 843	Bull. 569
Pella, T. 76 N., R. 18 W., 0.5 mile south of SE. cor. sec.	052.00	D11 = 60
9, in telephone post; three 40-penny nails	853.92	Bull. 569
9, T corner, on highest point of large rock near corner		
fence post; painted square	815.10	Bull. 569
Peoria, Mahaska Co., T. 77 N., R. 17 W., 0.3 mile south of		
sec. 7, on projecting knob of fence post, T corner;	751.64	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.3 mile north of SE. cor. sec.	701.01	Dun. 505
8, on south side of east and west road, on bank, 18 feet	t	
east of corner fence post; iron post stamped "806	3	
Peoria, T. 77 N., R. 17 W., 0.3 mile north by 0.2 mile west	804.856	Bull. 569
of SE. cor. sec. 9, in base of corner fence post; three		
40-penny nails	843.72	Bull. 569
40-penny nails  Peoria, T. 77 N., R. 17 W., 0.3 mile east of SW. cor. sec 10, on stone 15 feet NW. of intersection of roads;		
10, on stone 15 feet NW. of intersection of roads;	000.25	D11 560
Peoria, T. 77 N., R. 17 W., SE. cor. sec. 10, in corner fence	820.35	Bull. 569
post; three 40-penny nails	857.35	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.5 mile north by 0.3 mile east		
of SW. cor. sec. 14, in root of hickory tree; 40-penny nail	863.22	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.5 mile north of SE. cor. sec. 14, on north side of east and west road, 60 feet NW. of		
intersection of roads, 3 feet south of east and west		
fence; iron post stamped "875 Iowa"	. 873 <b>.</b> 856	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.3 mile south by 0.2 mile west	;	
of NE. cor. sec. 23, in corner fence post; three 40-	854.24	Bull. 569
penny nails	. 004.24	Duil. 908
25, in fence post at corner, T corner; three 40-penny	,	
nails	. 857.79	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.5 mile east of SW. cor. sec.		D 11 500
25, in corner fence post, T corner; three 40-penny nails Peoria, T. 77 N., R. 17 W., 0.5 mile south by 0.3 mile east	798.68	Bull. 569
of NW. cor. sec. 36, 15 feet east of center of north and	, İ	
south road, 50 feet north of east and west road, 18 feet		
north of corner fence post, 3 feet west of north and		
south fence; iron post stamped "742 Iowa"	. 740.216	Bull. 569
Peoria, T. 77 N., R. 17 W., 0.3 mile west of SE. cor. sec. 36, at intersection of roads, in south root of 30-inch elm	1	
tree; three 40-penny nails	. 844.29	Bull. 569
Peosta	.1036,G1036	$\mathbf{IC}$
Peosta, 25 feet NW. of IC RR station, sec. 9, T. 88 N., R	•	

	ELEVATION	
Station	FEET	AUTHORITY
1 E., 50 feet north of main track, beside wagon road;		
iron post stamped "1051"	1,041.585	Bull. 569
Percival	938,G934	CB&Q
Percival, 3 miles south of station, 13 feet north of farm	•	•
gate, 627 feet north of road crossing, 45 feet east of		
railroad; copper bolt in bench-mark stone surmounted		
by iron pipe (U.S.C.E.p.b.m. 328):		
Copper bolt	920.162	Bull. <b>56</b> 9
Cap on pipe	924.181	
Percival, 784 feet north of center of station, 46 feet east		
of tracks; copper bolt in bench-mark stone (U.S.C.E.		
p.b.m. 329):	000 100	70 11 77.00
Copper bolt	926.192	Bull. 569
Cap on pipe	930.221	
Percival, T. 68 N., R. 44 W., in NE. 1/4 sec. 1, 665 feet		
south of north line of the quarter, 500 feet east of west		
line of the quarter, 610 feet south of house of Paul Heinlin, on left bank, on west side of north-south road;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 112/2):		,
Copper bolt	925.43	Bull, 569
Cap on pipe	929.50	Dun. 000
Percival, T. 69 N., R. 44 W., 667 feet west of NE. cor.	020.00	
NW. 1/4 sec. 30, in yard of Delos Williams, 75 feet south		
of east-west road; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 113/2):		
Copper bolt	928.50	Bull. 569
Cap on pipe	932.57	
Percival, T. 69 N., R. 43 W., in NE. cor. sec. 30, in door-		
yard of F. E. Wadhams; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 113/3):		
Copper bolt	928.93	Bull. 569
Cap on pipe	933.00	
Percy	750	WRR
Percy, 1.5 miles west of, 100 feet west of road, in south		
part of W. C. Wilson's yard, 1 foot north of Wabash RR		
fence at crossing south to highway bridge over Des	,	
Moines river, in top of concrete post, bronze tablet	770.000	TTOOO
estamped "Prim. Trav. Sta. 24 LS 1904 IA (reset 1924) Percy, 2 miles below, in root of twin 8-inch hackberry tree	772.989	USGS
on fence line, 15 feet from bank of river, 15 feet east		
of small house owned by fishing club on land of J.		
Gould; 20d. nail in bench cut (U.S.C.E.b.m. 60)	741.44	Bull. 569
Percy, T. 77 N., R. 21 W., 0.25 mile west of NE. cor. sec.	111.11	Dan. 000
13, T road corner, 15 feet west and 60 feet south of		
center of crossroads 1 foot east of fence: iron post		
center of crossroads, 1 foot east of fence; iron post stamped "825 Iowa"	823.338	Bull. 569
Percy, see also Bennington		
Perkins	1458	GN
Perkins, crossing over CM&StP	1452	GN
Perkins, CM&StP track	1427	GN
Perkins	1427	CM&StP
Perkins, crossing under GN	1427,G1431	CM&StP
Perkins, crossing, GN track		${ m CM\&StP}$
Perlee		CRI&P
Perry		M&StL
Perry, crossing CM&StP	G961	M&StL
Perry	949.37	DM&CI
Perry, crossing M&StL	962.80	DM&CI
Perry erossing M&StT		CM&StP CM&StP
Perry, crossing M&StL	$959 \\ 947.84$	DM&CI
rerry, bouck	341.04	DWWCT

	ELEVATION	
STATION	FEET	AUTHORITY
Pershing	956	CRI&P
Persia Peru 9	1166,61167	CM&StP
Petersburg	1033.4	CGW CGW
Petersburg, T. 90 N., R. 3 W., quarter corner east side of	1000.1	00 11
sec. 28, southeast corner of schoolhouse yard; iron post		
stamped ''1090 DBQ''	1,091.140	Bull. 569
Peterson	1236,G1238	C&NW
Petersville	715	C&NW
Pickering	971,G984	CM&StP
Pickering, crossing under M&StL	G984	CM&StP
Pickering, crossing, M&StL track Pickering	G1006 1018	CM&StP
Pierson		M&StL C&NW
Pilot Grove	643	CB&Q
Pilot Knob, Hancock county	1450	IaGS
Pilot Mound, Boone county	1109,G1109	M&StL
Pilot Mound, 1 mile east by 1.2 miles north of, T. 85 N.,	ŕ	
R. 27 W., east center of SE. 1/4 sec. 9, NW. cor. cross-		
roads; copper nail in base of corner fence post, marked	1 150 15	TD 11 700
"1159.1" Pilot Mound, 1 mile east of, T. 86 N., R. 27 W., SW. cor.	1,158.17	Bull.569
sec. 15, NE. cor. road forks north, at fence corner; iron		
post stamped "1121"	1,120.316	Bull.569
Pilot Mound, 4 miles south by 1 mile east of, T. 86 N., R.		25 4240 00
27 W., NW. cor. sec. 10, SE. cor. road forks south, NW.		
cor. schoolhouse yard; iron post stamped "1119" Pilot Mound, 4 miles north of, T. 86 N., R. 27 W., NE.	1,118.017	Bull.569
Pilot Mound, 4 miles north of, T. 86 N., R. 27 W., NE.		
cor. sec. 32, 60 feet SW. of center of crossroads, on		'
west side of road; copper nail in root of 3-foot cotton- wood tree, marked "1133.9"	1 129 05	Bull.569
Pilot Mound, 2.8 miles north of, T. 85 N., R. 27 W., north	1,132.95	ъпп'909
center of SW. ¼ sec. 4, SE. cor. crossroads; copper nail		
in base of telephone pole, marked '1140.0''	1,139.09	Bull.569
Pilot Mound, 1.5 miles northeast of, T. 85 N., R. 27 W.,		
near center of SW. 1/4 sec. 9, SE. cor. road forks east,		
south end of drain under road to east, 50 feet east of		
center of road forks; chiseled square on top of stone,		T 11 500
marked "1140.7"	1,139.74	Bull.569
Pilot Mound, northeast edge of, T. 85 N., R. 27 W., SW.		
cor. sec. 16, NE. cor. crossroads; copper nail in base of telephone pole, marked "1110.3"	1,109.32	Bull.569
Pilot Mound, T. 85 N., R. 27 W., 0.2 mile north of SW.		202.000
Pilot Mound, T. 85 N., R. 27 W., 0.2 mile north of SW. cor. sec. 21, bend in road to SE., north side of mound,		
east side of road, 15 feet north of fence corner; nail in		
top of stake in ground at fence post, marked ''1124.9''	1,123.94	Bull.569
Pilot Mound, 1 mile south of, T. 85 N., R. 27 W., 0.1 mile	9	
east of SW. cor. sec. 21, in center of road forks at T road north; chiseled square on top of stone, marked		
"1127.7"	1,126.77	Bull.569
Pilot Mound, 2.2 miles south of, T. 85 N., R. 27 W., north	1,120.11	Du11.000
Pilot Mound, 2.2 miles south of, T. 85 N., R. 27 W., north center of NW. 4 sec. 33, SE. cor. crossroads; chiseled		
square on top of stone on south side of east road,		
marked ''1122.6''	1,121.67	Bull.569
Pilot Mound, T. 84 N., R. 27 W., north center of NW. 1/4		
sec. 4, on line between townships Pilot Mound and Yell	,	
SW. cor. road forks at T road west; copper nail in top of south end of plank drain under road west, marked	)	
(1101.5)	1,100.60	Bull.569
Pilot Mound, T. 84 N., R. 27 W., south center of SW. 14	,	2411.000
sec. 4. Nw. cor. road forks north; copper hall in base of		
telephone pole, marked "1110.0"	1,109.09	Bull.569

,	Tr my my one	
Station	ELEVATION FEET	AUTHORITY
	1220	
Pilot Mound (the hill)	1220	IaGS
82, R. 7, 2075 feet west of SE. cor. sec. 5.	755.80	CR&IC
Pioneer		M&StL
Pioneer, T. 90 N., R. 29 W., 250 feet north of quarter cor.	1100,01110	1140,012
between secs. 3 and 10, in SE. cor. of Mary L. Schus-		
ter's yard, in root of cottonwood tree (15 inches diam-		
eter); nail in washer T.B.M. '1,148.5'	1,148.22	USGS
Pioneer, T. 90 N., R. 29 W., center of sec. 10, 20 feet NE.	,	,
of crossroads; iron post stamped "Iowa 1919, Prim.		
Trav. Sta. No. 9, 1,134"	1,133.441	USGS
Piper		FtDDM&S
Pisgah	1060	C&NW
Pittsburg highway bridge, Van Buren Co., on top stone at		
angle in abutment, on south end of east abutment;	<b>700.00</b>	70 11 500
cross mark (U.S.C.E.b.m. 31)	593.36	Bull. 569
Plainfield		IC
Plato		CB&Q
Pleasant Creek		CRI&P CM&StP
Pleasanton		CB&Q
Pleasant Prairie		CD&M
Pleasant Valley		CD&M
Pleasant Valley	G582	DRI&NW
Pleasant Valley, DRI&NW station	589	CB&Q
Pleasant Valley, DRI&NW station		CM&StP
Pleasantville	925.2,G926	CB&Q
Pleasantville, 0.75 mile SE. of, 230 feet NW. of road	,	•
crossing, in top of east end of railroad culvert; Prim.		
Trav. Sta. No. 3; aluminum tablet stamped "882 Adj."	880.347	Bull. 569
Pleasantville, in front of station; top of rail	926.4	Bull. 569
Pleasantville, T. 76 N., R. 21 W., 0.5 mile south of NW.		
cor. sec. 14, at NE. angle crossroads, on stone; painted		
cross		Bull. 569
Pleasantville, T. 76 N., R. 20 W., center of sec. 18, north of		
east and west road, 25 feet west of corner fence post, 1		T) 11 500
foot south of fence; iron post stamped "913 Iowa"		Bull. 569
Pleasantville, T. 76 N., R. 20 W., 0.5 mile south of NE. cor. sec. 18, in center of road, in root of white-elm tree 32		
inches in diameter; nail	907.98	Bull. 569
Plessis	1522 G1520	CRI&P
Plover		M&StL
Plum Creek	1177	C&NW
Plymouth	1125.G1128	CM&StP
Plymouth Junction	1125	CM&StP
Plymouth Junction, crossing CRI&P	1125	CM&StP
Plymouth Junction	.1127,G1126	CRI&P
Plymouth Junction, crossing CM&StP	1127,G1126	CRI&P
Pocahontas	.1227,G122 <b>2</b>	CRI&P
Polk City	852	C&NW
Polk City, T. 80 N., R. 24 W., NE. 1/4 SW. 1/4 sec. 18,		
150 feet west of road fork, Corydon Bridge; iron post		
stamped ''850 Adj 1903''	848.913	Bull. 569
Polk City, Corydon Bridge, 1 mile west of, about center of		
sec. 14, T. 80 N., R. 25 W., 40 feet west of center of		
road, in A. L. Frazer's yard; iron post stamped "950		Dull sen
Adj 1903''	948.972	Bull. 569
and 6; spike in telephone pole, marked "U.S.B.M. 879"	878.22	Bull. 569
Polk City, in front of C&NW Ry station, top of rail		Bull. 569
Polk City, T. 80 N., R. 25 W., near NW. cor. sec. 12, north		2011 000
	-	

STATION   Side of road at three corners; spike in telephone pole, marked "U.S.B.M. 906"   904.43   Bull. 569
Polk City, in NW. cor. front face of Polk City Savings   Bank; aluminum tablet stamped "890"   888.624   Bull. 569     Polk City, T. 81 N., R. 25 W., SE. cor. NW. ¼ sec. 36, at three corners, road to west; top of rock marked "U.S.□   B.M. 916"   914.41   Bull. 569     Polk City, T. 81 N., R. 25 W., 450 feet north of NW. cor. sec. 25; on west side of road; spike in telephone pole, marked "U.S.B.M. 931"   931.14   Bull. 569     Polk City, T. 81 N., R. 25 W., NE. cor. sec. 23; iron post stamped "956"   954.557   954.557   Polk City, Junction   951   C&NW     Polk City, Junction   951   C&NW     Polk City, Junction   951   C&NW     Pomeroy   1243,G1241   IC   CRI&P     Port Allen   608,G612   CRI&P     Port Louisa, Mississippi river, low water   G826   CRI&P     Port Louisa, Mississippi river, low water   G526   CRI&P     Port Louisa, Mississippi river, ligh water   G526   CRI&P     Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24)   CM&StP     Port Louisa landing, Louisa Co., 2.5 miles below, 842   meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):   Copper bolt   Cap on pipe   Tot. Louisa, landing, 2.5 miles below, 10 meters from river   S30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):   Copper bolt   S33.93   Cap on pipe   Cap on pipe   S33.93   Cap on pipe   Cap on pipe   Cus. Cap on pi
Bank; aluminum tablet stamped ''890''
Polk City, T. 81 N., R. 25 W., SE. cor. NW. ¼ sec. 36, at three corners, road to west; top of rock marked "U.S.   B.M. 916"   914.41   Bull. 569
B.M. 916''
Polk City, T. 81 N., R. 25 W., 450 feet north of NW. cor. sec. 25, on west side of road; spike in telephone pole, marked "U.S.B.M. 931" 931.14 Bull. 569
sec. 25, on west side of road; spike in telephone pole, marked "U.S.B.M. 931" 931.14 Bull. 569 Polk City, T. 81 N., R. 25 W., NE. cor. sec. 23; iron post stamped "956" 954.557 Polk City Junction 951 C&NW Pomeroy 1243,G1241 IC Popejoy 155 CRI&P Port Allen 608,G612 CRI&P Port Allen 608,G612 CRI&P Port Louisa, Mississippi river, low water 6526 Miss. Riv. Com. Port Louisa, Mississippi river, high water 6526 Miss. Riv. Com. Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24) Port Louisa landing, Louisa Co., 2.5 miles below, 842 meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1): Copper bolt 536.02 Port Louisa landing, 2.5 miles below, 10 meters from river shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2): Copper bolt 533.93 Cap on pipe 537.96 Port Louisa, Turkey Island, on, 8 meters from east shore, 13 meters 333° to 8-inch willow, 15 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3): Copper bolt 532.44  Bull. 569
Marked ('U.S.B.M., 931')   931.14   Bull. 569
Stamped ''956''   954.557   Bull. 569   Polk City Junction   951   C&NW   Pomeroy   1243,G1241   IC   Popejoy   1155   CRI&P   Port Allen   608,G612   CRI&P   Portland   1077,G1082   CM&StP   Port Louisa, Mississippi river, low water   G526   Miss. Riv. Com.   Port Louisa, Mississippi river, high water   G526   Miss. Riv. Com.   Port Louisa, on top of SE. cor. stone foundation of tall   chimney of old sawmill (mill now torn down) (U.S.C.E.   p.b.m. 24)   S45.429   Bull. 569   Port Louisa landing, Louisa Co., 2.5 miles below, 842   meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):   Copper bolt   Cap on pipe   S36.02   Cap on pipe   S36.02   Port Louisa landing, 2.5 miles below, 10 meters from river   shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch   black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):   Copper bolt   S33.93   Bull. 569   Cap on pipe   Cap on pipe   S33.93   Bull. 569   Cap on pipe   S33.93   Cap on pipe   S33.93   Bull. 569   Cap on pipe   Cap on pipe
Polk City Junction         951         C&NW           Pomeroy         1243,G1241         IC           Popejoy         1155         CRI&P           Port Allen         608,G612         CRI&P           Port Louisa, Mississippi river, low water         G526         Miss. Riv. Com.           Port Louisa, Mississippi river, high water         G526         Miss. Riv. Com.           Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24)         545.429         Miss. Riv. Com.           Port Louisa landing, Louisa Co., 2.5 miles below, 842         Bull. 569           Port Louisa landing, Louisa Co., 2.5 miles below, 842         Bull. 569           Enters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):         532.01         Bull. 569           Cap on pipe         536.02         S36.02         Bull. 569           Port Louisa landing, 2.5 miles below, 10 meters from river shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):         533.93         Bull. 569           Port Louisa, Turkey Island, on, 8 meters from east shore, 13 meters 333° to 8-inch willow, 15 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3):         532.44         Bull.
Pope
Port Allen 608,6612 CRI&P Portland 1077,G1082 CM&StP Port Louisa, Mississippi river, low water 6526 Miss. Riv. Com. Port Louisa, Mississippi river, high water 6542 Miss. Riv. Com. Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24) 545.429 Port Louisa landing, Louisa Co., 2.5 miles below, 842 meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1): Copper bolt 532.01 Cap on pipe 536.02 Port Louisa landing, 2.5 miles below, 10 meters from river shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2): Copper bolt 533.93 Bull. 569 Port Louisa, Turkey Island, on, 8 meters from east shore, 13 meters 333° to 8-inch willow, 15 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3): Copper bolt 532.44 Bull. 569
Port Louisa, Mississippi river, low water
Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24)  Port Louisa landing, Louisa Co., 2.5 miles below, 842 meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
Port Louisa, on top of SE. cor. stone foundation of tall chimney of old sawmill (mill now torn down) (U.S.C.E. p.b.m. 24)  Port Louisa landing, Louisa Co., 2.5 miles below, 842 meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
p.b.m. 24)  Port Louisa landing, Louisa Co., 2.5 miles below, 842  meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
p.b.m. 24)  Port Louisa landing, Louisa Co., 2.5 miles below, 842  meters back of bench mark 135/2, 16.6 meters 300° to 18-inch elm tree, 14.6 meters 201° to 15-inch elm tree, 2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
2.2 meters 82° to 9-inch elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/1):  Copper bolt
Copper bolt
Cap on pipe  Port Louisa, Turkey Island, on, 8 meters from east shore, 13 meters 33° to 8-inch willow, 15 meters 76° to 18-inch willow tree, 10 meters 530.95  Port Louisa, Turkey Island, on, 8 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron 533.93  Eagle 253.93  Bull. 569  Some copper bolt in tile surmounted by iron east shore, 13 meters 333° to 8-inch willow, 15 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3):  Copper bolt 532.44  Bull. 569
Port Louisa landing, 2.5 miles below, 10 meters from river shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):  Copper bolt
shore, 7.6 meters 73° to 18-inch elm tree, 11.6 meters 191° to 30-inch cottonwood tree, 13.2 meters 316° to 10-inch black-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/2):  Copper bolt
pipe (U.S.C.E.b.m. 135/2):  Copper bolt
pipe (U.S.C.E.b.m. 135/2):  Copper bolt
Cap on pipe
Port Louisa, Turkey Island, on, 8 meters from east shore, 13 meters 333° to 8-inch willow, 15 meters 76° to 18-inch maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3): Copper bolt
maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3):  Copper bolt
maple tree, 10 meters 137° to 10-inch willow tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 135/3):  Copper bolt
135/3): Copper bolt
Copper bolt
Cap on pipe 536.45
Port Louisa landing, 2.5 miles below, on main shore, 10 meters from river bank, 18 meters 301° to 36-inch elm
tree, 8.5 meters 126° to 48-inch elm tree; copper bolt in
tile surmounted by iron pipe (U.S.C.E.b.m. 135/4):
Copper bolt
Cap on pipe537.79 Port Louisa, in woods opposite, 279 meters from river, 11
meters west of slough, 45 meters above junction with
meters west of slough, 45 meters above junction with another slough; copper bolt in tile surmounted by iron
pipe (U.S.C.E.b.m. 136/1):  Copper bolt
Copper bolt
Port Louisa, 35 meters from shore in small open timber op-
posite, directly opposite foot of small towhead, 8.7
meters 18° to 30-inch elm tree, 4 meters 137° to 8-inch triple elm, 4 meters 200° to 12-inch elm tree; copper

	ELEVATION	
STATION	FEET	AUTHORITY
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 136/2):		
Copper bolt	534.10	Bull. 569
Cap on pipe	538.11	
Port Louisa, in open spot at corner of roads on line of road		
running back from Port Louisa to the bluffs, on point		
where old house once stood, east of bridge over Musca- tine Slough, 23 meters south of fence and 19 meters west		
of another fence; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 136/3):		
Copper bolt	537.03	Bull. 569
Cap on pipe	<b>541.03</b>	
Port Louisa, on line of wire fence on south side of road		
running back from Port Louisa, 135 feet west of fence		
corner at bend in road; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 136/4):		
Copper bolt	536.18	Bull. 569
Cap on pipe	540.24	Dun 000
Port Louisa, on clearing on Island 346, 0.25 mile above foot		•
of island, 25 meters from bank of river, 70 meters from		
bank of Illinois Slough; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 137/2):	535.83	D.,11 560
Copper bolt	539.85	Bull. 569
Port Louisa, 3 miles above, 40 meters from river bank, 18	000.00	
meters east of wagon road, 5.4 meters 29° to 18-inch		
cottonwood, 21.6 meters 319° to 30-inch elm, 12.7 meters		
242° to 15-inch locust, 5 meters from bank is a sycamore		
(48 inches in diameter) nearly in line with bench mark		
and elm tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 137/3):		
Copper bolt	538.11	Bull. 569
Cap on pipe		Dan. 000
Portsmouth	1197,G1200	CM&StP
Postville		CRI&P
Postville	1194,G1198	CM&StP
Postville, T. 95 N., R. 6 W., NE. cor. sec. 16, in SE. cor.	1 075 596	Bull. 569
school yard; iron post stamped "1075 DBQ"Postville, in front face of Commercial House; aluminum	1,075.526	ъшл. 509
tablet stamped ''1195 DBQ''	1,194.516	Bull. 569
tablet stamped "1195 DBQ" Postville, in front of CM&StP Ry station; top of rail	1,197.3	Bull. 569
Postville Junction	1058,G1062	CRI&P
Potter		CM&StP
Potters Siding		CGW
Prairie City, B.M. top of monument M.P. 339 Prairie City, B.M. top of monument M.P. 340	925.37 $927.23$	CRI&P CRI&P
Prairie City, top of rail, center of depot	927.23 924 3 G930	CRI&P
Prairie City, B.M. top of monument M.P. 341	921.22	CRI&P
Prairie City, B.M. top of monument M.P. 342.	920.59	CRI&P
Prairie City, B.M. top of monument M.P. 343	930.06	CRI&P
Prairie City, B.M. top of monument M.P. 344	935.19	CRI&P
Prairie City, T. 78 N., R. 21 W., at north cor. secs. 5 and 6,		
30 feet south and 30 feet east of T road south, near		
cemetery, on concrete post; bronze tablet stamped "Prim. Trav. Sta. No. 25-L.S1924,Ia.", marked		
((932.4))	932,466	USGS
Prairie City, reference mark, 69 feet west of "L.S. No.		
25", in SW. angle of T road south, top of concrete	,	
post; iron rod	933.02	USGS
Prairie City, T. 79 N., R. 21 W., at south corner of sees	•	
33 and 34, 32 feet north and 20 feet east of T road north	,	

STATION	ELEVATION FEET	AUTHORITY
1 foot NE. of telephone pole; top of 0.5-inch gas pipe, marked "908.0"	908.08	USGS
Prairie City, T. 79 N., B. 21 W., at SE. cor. sec. 34 in NW. angle of T road north, top of concrete culvert under highway; chiseled square, marked "883.1"		USGS
Prairie City, CRI&P Ry, at crossing of road between secs		
3 and 35, Tps. 78 and 79 N., R. 21 W.; top of east rail Prairie City, T. 79 N., R. 21 W., at SE. cor. sec. 35, 60 feet west and 30 feet north of T road north, in root on south side of 4-foot cottonwood tree; copper nail and		USGS
washer, marked ''924.4''  Prairie City, T. 79 N., R. 21 W., SW. cor. sec. 25, in SW. cor. Valley School grounds, 4 feet north and 8 feet east of large willow tree, on concrete post; bronze tablet stamped ''Prim. Trav. Sta. No. 21-L.S1924-Ia.''	924.48	USGS
marked "847.3"	;	USGS
maple tree; copper nall and wasner ————————————————————————————————————	846.96	USGS
root on north side of 2-foot maple tree; copper nail and washer, marked "872.7"  Prairie City, T. 78 N., R. 21 W., at cor. secs. 1 and 2, on north side of Prairie City, 3 blocks north and 1 block	872.76	USGS
east of city square, 1 block west of junction of Colfar road with State Highway No. 2 (Federal Highway No 63), 25 feet north and 20 feet east of street intersec- tion, in root on SW. side of 3.5-foot maple tree; copper	• •	Taga
nail and washer, marked "929.4" Prairie City, CRI&P Ry, at road crossing, 1 block east of	Ē	USGS
city square; top of north rail	) ! :	USGS
tile; chiseled square, marked "911.5"	911.57	USGS
Prairie City, 2 miles south of, T. 78 N., R. 21 W., at cor secs. 11, 12, 13 and 14, 30 feet north and 30 feet east of crossroads, on concrete post; bronze tablet stamped	928.04	USGS
"Prim. Trav. Sta. No. 22-L.S1924-Ia.", marked "885.0"	. 885.037	USGS
Prairie City, 3 miles south of, T. 78 N., R. 21 W., 430 feet south of cor. secs. 13, 14, 23 and 24, 580 feet south of	. 888.63 t	USGS
L. Roovaart's house, on west side of road, top of heading of concrete culvert; chiseled square, marked "846.7" Prairie City, 4 miles south of, T. 78 N., R. 21 W., near cor secs. 23, 24, 25 and 26, 70 feet east and 20 feet south of crossroads, in root on west side of 2-foot elm tree; cop-	846.73	USGS
per nail and washer, marked "862.4"  Prairie City, 5 miles south of, T. 78 N., R. 21 W., at cor secs. 25, 26, 35 and 36, 40 feet south and 20 feet east of crossroads, on concrete post; bronze tablet stamped	862.46	USGS
"Prim. Trav. Sta. No. 23-L.S1924-Ia."  Prairie City, reference mark, 62 feet west and 8 feet south	. 913.070	USGS

	ELEVATION	
STATION	FEET	AUTHORITY
of L.S. No. 23, top of concrete curb around churchyard;		
chiseled square	913.78	USGS
Prairiesburg, Linn Co., T. 86 N., R. 5 W., NW. cor. sec. 10, opposite side of road from Stromburg's residence; iron		
post stamped "1013"	1,004.245	Bull. 569
Prairie View	906.04	DM&CI
Preparation	1084	C&NW
Prescott		CB&Q
Preston		$\mathbf{CM\&StP}$
Primghar	1504,G1498	$_{ m IC}$
Princeton		$^{\mathrm{CD}\&\mathbf{M}}$
Princeton		DRI&NW
Princeton, DRI&NW station	606	CM&StP
Princeton, DRI&NW station	603.9	$^{\mathrm{CB\&Q}}$
Princeton, 1.5 miles below, on property of Adam McCoy, 1 meter from SE. cor., at junction of wagon roads, one		
running along river and the other on line between secs.		
14 and 15, T. 79, R. 5 E., 30 meters from bank of river;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 155/3):		,
Copper bolt	589.29	Bull. 569
Cap on pipe	593.32	
Princeton, 1 mile below, in NE. cor. footplate on NE. cor.		
iron bridge over Bud creek; bolt with battered top (U.		
S.C.E.t.b.m. 11 R. B)	580.27	Bull. 5 <b>69</b>
Princeton, cut in stone culvert near river near center of	500 OF	' D11 560
town (U.S.C.E. high-water mark of June 16, 1880) Princeton, 1 mile above, on bluff wagon road, 2 meters	580.95	Bull. 569
north of south road fence, 150 meters west of where		
road turns from river and runs west, 130 meters east of		
north-south road; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 156/3):		
Copper bolt	587.04	Bull. 569
Cap on pipe	591.07	
Princeton, 1.5 miles NW. of, 1 meter north of south fence		
on bluff wagon road, at dividing line between Mary and		
Chas. Pinneo, 100 meters toward river from brick house belonging to Pinneo, at east end of picket fence, copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
156/4):		
Copper bolt	587.00	Bull. 569
Cap on pipe	591.02	<b>Dan.</b> 000
Prole	979	CB&Q
Promise City	1052,G1065	$^{ m CB\&Q}$
Pulaski		CB&Q
Purdy	924	$_{\mathrm{CRI\&P}}$
Putledge	809	$\operatorname{CRI\&P}$
Quandahl, Allamakee Co., T. 99 N., R. 6 W., about 0.2 mile		
north of SE. cor. sec. 9, in NW. cor. school yard; iron post stamped "731 DBQ"	729.578	Bull. 569
Quarry		C&NW
Quilhart		CRI&P
Quimby	1190.G1190	ic
Quincy, Adams Co.	1260	JaGS
Racine	1144	CRI&P
Radcliffe	1189,G1194	C&NW
Radcliffe	1152	CRI&P
Radcliffe, crossing over C&NW	1158	CRI&P
Rake	1107,61154	CRI&P
Raleigh		M&StL C&NW
Randalia, in front of CRI&P Ry station; top of rail	1,103.6	Bull. 569
Transaction, in front of Civilian ity Station, top of fatherning	_,	

	ELEVATION	
STATION	FEET	AUTHORITY
Randalia, southeast cor. sec. 16, T. 93 N., R. 9 W.; iron post stamped "1128 DBQ"	1,129.082	Bull. 569
Randalia	1103	CRI&P
Randall, 5 miles west of, T. 86 N., R. 24 W., SW. cor. sec.	1024	C&NW
19, on line between Ellsworth and Clear Lake Tps., NE.		
cor. crossroads; copper nail in top of corner fence post,	1.045.40	D11 560
marked "1046.7". Randall, 4 miles west by 2 miles south of, T. 86 N., R. 24	1,045.48	Bull. 569
W., SE. cor. sec. 31, NW. cor. crossroads; copper nail in		
top of post at end of drain under north road, marked	1,018.70	Bull. 569
Randall, 4 miles west by 0.1 mile south of, T. 86 N., R. 24	1,010.70	Dui. 505
W., SE. cor. sec. 30, NW. cor. crossroads, 15 feet north		
of NW. fence corner; on road side of 1-foot soft-maple tree; copper nail in root, marked '1041.7'	1,040.63	Bull. 569
Randall 4 miles west of, T. 86 N., R. 24 W., SE, cor. sec.		
19, NW. cor. crossroads; iron post stamped ''1056'' Randall, 3 miles west of, T. 86 N., R. 24 W., NW. cor. sec.	1,055.205	Bull. 569
28, SE. cor. crossroads, SW. cor. plank bridge floor, 60		
feet east of center of crossroads; copper nail in top,	1 004 05	D11 560
marked ''1036.0''  Randall, 2 miles west of, T. 86 N., R. 24 W., NE. cor. sec.	1,034.95	Bull. 569
28, SW. cor. crossroads, NW. cor. bridge over creek;		
copper nail in top of west end of north plank bridge seat marked "1029.5"	1,028.45	Bull. 569
Randall, 1 mile west of, T. 86 N., R. 24 W., near SE. cor.	1,02 7.10	Dan. 900
sec. 22, NE. cor. bridge crossing stream; copper nail in	1 017 04	D11 560
floor, marked ''1018.1''	1,017.04	Bull. 569
R. 24 W., NW. cor. road forks; chiseled square cut in	1 001 00	T 11 700
top of north end of concrete drain, marked "1022.8" Randall, T. 86 N., R. 24 W., near NE. cor. sec. 26, at north	1,021.69	Bull. 569
edge of town, in NW. cor. schoolhouse yard; iron post		
stamped "1019"	1,017.895	Bull. 569
sec. 36, NE. cor. C&NW Ry crossing east-west county-line		
road; spike in post of cattle guard, marked "1018.7"	1,017.74	Bull. 569
Randall, T. 86 N. R. 24 W., east center of sec. 35, south side of road at bend to east, east side of railroad; spike		
in post of cattle guard, marked "1014.1"	1,013.20	Bull. 569
Randall, 1 mile south of. T. 86 N., R. 24 W., south center of SE. ¼ sec. 26, NW. cor. crossroads: copper nail in		
base of telephone pole, marked "1017.4"	1,016.47	Bull. 569
Randall, 4 miles east of, T. 86 N., R. 34 W., SW. cor. sec.		
22, NE. cor. crossroads; at fence corner; iron post, stamped "1093"	1,091.423	Bull. 569
Randall, 3 miles east of, T. 86 N., R. 23 W., NE. cor. sec.	,	
29, SW. cor. crossroads, at fence corner; chiseled square cut in top of large stone, marked "1046.8".	1,045.58	Bull. 569
Randall, 2 miles east of, T. 86 N., R. 23 W., SE. cor. sec. 19,	2,010.00	Dan. 000
NW. cor. crossroads; chiseled square on top of large rock, marked ''1031.2''	1,029.92	Bull. 569
Randall, 1 mile east of, SW. cor. sec. 19, T. 86 N., R. 23	1,029.92	Бин. 505
W., on township line between Scott and Ellsworth Tps.,		
NE. cor. crossroads; chiseled square on top of stone at west end of drain under road, marked "1002.97"	1,001.75	Bull. 569
Randick	856	CRI&P
Randolph	71.6,G970	${ m CB\&Q} \ { m CM\&StP}$
Rathbun		CM&StP
Raymond	884	$_{ m IC}$

	ELEVATION	
Station	FEET	AUTHORITY
Readlyn	1030.5	CGW
Reasnor	759	CRI&P
Rector	725	CRI&P
Rector, T. 75 N., R. 19 W., NE. cor. sec. 3, 18 feet east of		
center of north and south road, in angle of fence; iron	047 507	D 11 F00
post stamped "849 Iowa"	847.507	Bull. 569
Rector, opposite signboard (CRI&P Ry); top of rail	810.4	Bull. 569 CB&Q
Reddy	798.7	. CGW
Redfield		CM&StP
Red Oak1		CB&Q
Red Rock, Marion Co., top of round bolthead between two	011,01011	ODWY
hexagonal nuts on extreme east side of north shore pier		
of highway bridge at (U.S.C.E.b.m. 62)	733.64	Bull, 569
Red Rock, on top of downstream end of outcropping ledge		
of red sandstone about 1 mile above highway bridge at		
Red Rock, river makes a sharp bend when it strikes this		
ledge, from which it is presumed the locality takes its		
name; square cut (U.S.C.E.b.m. 61)		Bull. 569
Reeve	1181	CRI&P
Reinbeck	932,0926	CRI&P
Reinbeck, crossing CGW	94 0 C 005 930	CRI&P CGW
Reinbeck, crossing CRI&P	24.9,0920	CGW
Keinbeck	G926	Weather Bur.
Reinicker, M.P. 349	1197	IC
Relay (CB&Q Transfer, Centerville)	931	ISU
Rembrandt	332.G1333	M&StL
Remsen1	326,G1324	IC
Renwick	1156	C&NW
Rhodes1	.011,G1011	CM&StP
Riceville12	32.7,G1229	CGW
Richards		IC
Richland	77 <b>4</b> , <b>G</b> 768	M&StL
Richland	664,G674	CM&StP
Richland, crossing over M&StL		CM&StP
Ricketts	1303	C&NW
Rider T 70 N R 25 W SE cor SE 1/202 21 20 foot	911,0919	CM&StP
Rider, T. 79 N., R. 25 W., SE. cor. SE. ¼ sec. 21, 20 feet west of junction with T road south, in field, 20 feet		
from large tree at corner; iron post stamped "956		
Prim. Trav. Sta. No. 2''	954.389	Bull. 569
Prim. Trav. Sta. No. 2''	211.G1209	CM&StP
Ridgeway, McIntosh schoolhouse, 1.25 miles west of, 1.25		
miles east of Madison Church east of entrance to ceme-		
tery; iron post stamped "1194 DBQ"	1,193.625	Bull. 569
Ridley	.181,G1191	CM&StP
Riggs		CM&StP
Rinard11	63.8,G1170	CGW
Rinard, crossing FtDDM&S		CGW
Rinard	1171	FtDDM&S
Ringsted		C&NW
Rippey		M&StL
RitterRiver Junction		CStPM&O CRI&P
Riverside	631 G641	CRI&P
River Sioux	038.G1040	C&NW
River Sioux, 2.5 miles south of, 3,553 feet north of mile-	,	OWITH
post 20, 51 feet east of tracks; copper bolt in bench-		
· / · / · · / · · · · · · · · · · · · ·		

•	Er mitamos	
STATION	ELEVATION	A TIMITO DIMIT
	FEET	AUTHORITY
mark stone surmounted by iron pipe (U.S.C.E.p.b.m.		
368):	7 005 057	70.11 700
Copper bolt	1,025.851	Bull. 569
Cap on pipe	1,029.857	
River Sioux, 1,260 feet south of station, 541 feet south of		
milepost 23, 45 feet east of tracks; copper bolt in bench-		
mark stone surmounted by iron pipe (U.S.C.E.p.b.m.		
369 equals 131/3): Copper bolt	1 021 096	Bull. 569
Cap on pipe	1,031.986 1,035.982	ьш. 505
River Sioux, 2.2 miles north of station, 1,634 feet north	1,000.902	
of milepost 25, 47 feet east of tracks; copper bolt in		
bench-mark stone surmounted by iron pipe (U.S.C.E.		
p.b.m. 370):		
Copper bolt	1,028.922	Bull. 569
Cap on pipe	1,032.928	
River Sioux, 4.5 miles north of, at west right of way fence	-,	
of C&NW Ry, 608 feet north of south line of Monona		
county; copper bolt in tile surmounted by iron pipe (U.		
S.C.E.b.m. 132/4):		
Copper bolt	1,027.88	Bull. 569
Cap on pipe	1,031.94	•
Riverton	922,G926	CB&Q
Rizerville	975	ISŪ
Roberts, B.M. pole No. 1947	1129.81	FtDDM&S
Roberts, T. 88 N., R. 29 W., quarter cor. south side sec.		
24, at second class road crossing, 25 feet west of track,		
10 feet north of road, 2 feet east of fence; iron post		
stamped "Iowa 1919 1,128"	1,128.186	USGS
Roberts, T. 88 N., R. 29 W., quarter cor., south side of		
sec. 13, at Roberts crossing, 120 feet north of railway		
crossing, 5 feet west of track, in base of power trans-	1 107 00	TTOOO
mission pole, marked "1,127.2"; spike	1,127.29	USGS
Roberts, T. 88 N., R. 29 W., quarter cor. south side of sec. 12, at railway crossing, 60 feet west of track, on north		
side of road, in root of 2.5 foot cottonwood tree marked		
"1,123.3"; copper nail and washer	1,123.39	USGS
Roberts. T. 88 N., R. 29 W., near quarter cor., east side of	1,120.00	abas
sec. 12, at overhead road crossing, 40 feet east of bridge.		
6 feet east of track, in base of telephone pole, marked		
''1,085''; spike	1,085.06	USGS
Robertson		CRI&P
Robins		IC
Robins, 3 miles south of. crossing under CM&StP	790	IC
Robins, crossing under CM&StP	790	IČ
Robins, center of depot, subgrade	834.73	WCF&N
Robins, 3 miles south, near Louisa, crossing under CM&StP	788.50	WCF&N
Rochester	690	CB&Q
Rochester, bridge over Des Moines river	691	CB&Q
Rochester, bottom Des Moines river		CB&Q
Rochester, rock under Des Moines river	646	CB&Q
Rockdale, nail in S. end IC bridge No. 8	620,G621	CM&StP
Rockdale, nail in S. end IC bridge No. 8	G619	USGS
Rockdale Mill	617	IC
Rock Falls	1109,61104	CRI&P
Rockford	1022,01021	CRI&P
on Davenport wagon road, 136 meters NE. of Homann's		
south line; copper bolt in tile surmounted by iron pipe		
(U.S.C.E.b.m. 148/3):		
Copper bolt	555.02	Bull. 569
~~PP~ ~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~	000.02	Dan. 009

	ELEVATION	
STATION	FEET	AUTHORITY
Cap on pipe	559.00	
Rock Island, Ill.	570	CRI&P
Rock Rapids	1361.6 1381.6	CStPM&O CStPM&O
Rock Rapids, crossing CRI&P	1361.6	CStPM&O
Rock Rapids, state line	1391.3	CStPM&O
Rock Rapids	1350.G1345	CRI&P
Rock Rapids, crossing CStPM&O	1350,G13 <del>4</del> 5	CRI&P
Rock Rapids	1349,G1349	IC
Rock Rapids, crossing CRI&P	1349 1367	IC IC
Rock Rapids		Weather Bur.
Rock Rapids, 2 miles east of		IaGS
Rock Valley, Ia. & Dak. line	1249,G1255	CM&StP
Rock Valley, junction with Rock Valley line	1247	CM&StP
Rock Valley, 3 miles east of	1323	IaGS
Rockwell	1138,G1130 1221	M&StL FtDDM&S
Rockwell City	1228 G1230	CM&StP
Rockwell City, crossing IC	1221,G1222	CM&StP
Rockwell City, crossing IC	1221	CM&StP
Rockwell City	1220,G1223	IC
Rockwell City, crossing CM&StP and FtDDM&S	1219	IC
Rodman		CRI&P
RodneyRodney, crossing IC	1074	CM&StP CM&StP
Roelyn11		CGW
Rogers	926	IC
Roland	1033,G1028	M&StL
Roland, 1 mile south by 1 mile west of, T. 85 N., R. 23 W.,		
SE. cor. sec. 21, on west side of road at T road east, at		
fence line, at foot of telephone pole, 50 feet NW. of road forks, 35 feet north of east-west section line; iron		
post stamped "995"	993.096	Bull. 569
Roland, 1 mile west of, T. 85 N., R. 23 W., NW. cor. sec.	330.030	рші. 000
22. SE. cor. crossroads; copper nail in base of electric-		
light line pole, marked "1022.1"	1,020.73	Bull. 569
Roland, 1 mile west of, top of south rail at M&StL RR		~ 11 -44
crossing	1,024.0	Bull. 569
Roland, 1.5 miles north by 1 mile west of, T. 85 N., R. 23 W., east center sec. 9, SW. cor. crossroads; iron post		
stamped "1029"	1,027.347	Bull. 569
Roland, T. 85 N., R. 23 W., west center of SW. ¼ sec. 3,	_,0	25421 000
SE. cor. concrete bridge over Long Dick creek; chiseled		
square cut in base of concrete railing, marked "1013.2"	1,011.85	Bull. 569
Roland, 3 miles north by 1 mile west of, T. 86 N., R. 23		
W., SE. cor. sec. 33, county line between Hamilton and Story counties, NW. cor. crossroads; chiseled square on		
top of north guard of concrete culvert under road west,		
marked ''1024.9''	1,023.61	Bull. 569
Roland, 4 miles north by 1 mile west of, T. 86 N., R. 23 W.,		
SW. cor. sec. 27, NE. cor. crossroads; painted square on		
top of north end of tile drain under road east, marked		- 11
"1056.96"		Bull. 569
Roland, T. 85 N., R. 23 W., SE. cor. sec. 29, 3.5 feet west of T road south, NW. cor. bridge over Bear creek; cop-		
per nail in plank flooring, marked "964.65"	963.69	Bull. 569
Roland, 1 mile west by 2 miles south of, T. 85 N., R. 23		
W., SE. cor. sec. 28, NW. cor. crossroads, 28 feet west of		
SE. cor. schoolhouse yard, inside of fence; copper nail		
in root on west side of 18-inch box-elder tree, marked		TD. 11 - 600
"1026.6"	1,025.682	Bull. 569

STATION	ELEVATION FEET	A YOMAT O DAME
·-	FEET	AUTHORITY
Roland, 1 mile west by 3 miles south of, Tps. 84 and 85 N., R. 23 W., cor. secs. 3, 4, 33, and 34, at road crossing;		
chiseled square on top of corner stone in center of road,		
marked "1038.9"	1,037.92	Bull. 569
Roland, 4 miles south by 1 mile west of, T. 84 N., B. 23	1,001.02	Dun. 000
W., SE. cor. sec. 3, NE. cor. crossroads; iron post		
stamped "1025",	1,023.906	Bull. 569
Roland, T. 84 N., R. 23 W., SW. cor. sec. 10, NE. cor.	,	
crossroads; copper nail in top of north end of plank		
drain under road to east, marked "1013.0"	1,012.08	Bull. 569
Roland, T. 84 N., R. 23 W., NE. cor. sec. 21, SW. cor. cross-		
roads, 20 feet north of SW. fence corner; chiseled		
square in top of large rock on bank of ditch, marked	007.00	72 11 7700
(1992.2)	991.28	Bull. 569
Rolfe	1185	C&NW
Rolfe, crossing M&StL	$1186 \\ 1181$	C&NW M&StL
Rome		CB&Q
Roscoe		CB&Q
Rosebrook		ISŬ
Rosedale, Hamilton Co., 2 miles north by 1 mile west of,	020	1.00
T. 86 N., R. 25 W., SW. cor. sec. 23, NE. cor. crossroads,		
SW. cor. yard to residence, inside of fence corner; cop-		
per nail in root of 2-foot cottonwood tree facing fence		
corner marked (1089.8)	1,088.66	Bull. 569
Rosedale, 2 miles north of, T. 86 N., R. 25 W., near SW.		
cor. sec. 24, 160 feet east of crossroads, east side of north		
end of drain under road to east; copper nail in top of		
cedar post marked "1052.5"	1,051.31	Bull. 569
Rose Hill		CRI&P
Rose Hill, South Skunk river west of	718	IaGS
Rosseau, Marion Co., 0.38 mile north and 0.06 mile west of	1554,01555	C&NW
SW. cor. sec. 9, T. 76 N., R. 19 W., east of north and		
south road, 85 feet south of residence of J. P. Amos;		
iron post stamped "763 Iowa"	761.153	Bull. 569
Rosseau, T. 76 N., R. 19 W., 0.25 mile north of SW. cor.	. 02.200	2000
sec. 9, in west root of oak tree 24 inches in diameter; 40-		
penny nail	764.87	Bull. 569
Rossie		$\mathbf{CRI\&P}$
Rossie, crossing M&StL	1368	CRI&P
Ross Junction	786	WRR
Rossville	939	CM&StP
Rowan	1212	CRI&P
Rowan, crossing CGW	1205	CRI&P
Rowan		CGW CGW
Rowena, S. Dakota	1406	IC
Rowley	981.G990	CRI&P
Rounds Park	G951	WCF&N
Royal		CRI&P
Rubio	635,G638	CM&StP
Rubio, crossing Skunk river	632,G637	CM&StP
Rudd	1112,G1117	CM&StP
Runnells, T. 78 N., R. 22 W., near quarter corner on south		
side of sec. 33, 407 feet south of Wabash RR, at cross-		
ing of highway at curve in highway, 60 feet north of		
center line of highway east, 15 feet west of center line		
of highway north from curve, in top of concrete post; bronze tablet marked "762.4"	762.384	USGS
Runnells, reference mark, 54 feet S. 45° E. of B.M., top of	. 02.003	dodo
SW. heading of concrete culvert; chiseled square	763.66	USGS
		0.00.0

	ELEVATION	
Station	FEET	AUTHORITY
Runnells, T. 78 N., R. 22 W., 300 feet west of quarter cor-		
ner on south side of sec. 34, 420 feet west of road junc-		
tion, 300 feet west and 220 feet south of Wabash RR, at		
road crossing, in root on NE. side of 30-inch elm tree;		
copper nail and washer, marked "759.1"	759.04	USGS
Runnells	772	war
Runnells, 1 mile above, in top of south pier of highway		
bridge across Des Moines river; aluminum tablet (U.S. C.E.b.m. 58 equals U. S. Geological Survey primary		
traverse station mark No. 1)	764.64	Bull. 569
Russell10		CB&Q
Russell, 1 mile north by 1 mile west of, T. 72 N., R. 20 W.,	0110,01001	ODWĄ
at NW. cor. sec. 31, in SE. angle of crossroads, 2 feet		
east of corner post; iron post stamped "Iowa 1036,		
1913 '	1,036.227	Bull. 569
Russell, 1 mile north of, T. 72 N., R. 20 W., SW. cor. sec.	•	
29, in NE. angle of crossroads, 3 feet east of mile board		
"Albia 23," in root of elm stump; copper nail	1,027.82	Bull. 569
Russell, T. 72 N., R. 20 W., SW. cor. sec. 28, in NE. angle		
of T road north, east end of plank culvert, in top of	1 000 05	TO13 ###
plank; copper nail	1,023.67	Bull. 569
Russell, T. 72 N., R. 20 W., at SW. cor. sec. 27, in NE. angle of T road north, private road south, 140 feet east		
of Victory School 5 feet east of fence corner; iron post		
of Victory School, 5 feet east of fence corner; iron post stamped "Iowa 1023, 1913"	1,022.940	Bull. 569
Russell, T. 72 N., R. 20 W., at cor. sec. 26, 27, 34, and 35,	1,022.010	Dun 000
at center of crossroads, on section stone; chiseled square	983.81	Bull. 569
Ruthven	1428,G1434	CM&StP
Ruthven, crossing M&StL	l425,G1431	CM&StP
Ruthven	1432	M&StL
Rutland	1122,G1128	C&NW
Rutledge, Marion line	832,G834	CM&StP
Rutledge, Muscatine line	831,G834	CM&StP
Ryan	1013	IC
Ryan, west side of sec. 18, T. 87 N., R. 5 W., east side of		
road crossing IC RR. about 50 feet north of railroad; iron post stamped "1020"	1,000.789	Bull. 569
Sabula		CM&StP
Sabula, crossing Mississippi river		CM&StP
Sabula, 0.5 mile below in heavy timber 0.5 mile below	001,000	01/10/01
Sabula, 0.5 mile below, in heavy timber, 0.5 mile below Sabula bridge, 235 meters east of east bank of chute		
behind Savanna Island, 50 meters back of dry slough;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 166/1):		
Copper bolt		Bull. 569
Cap on pipe	581.83	
Sabula, 0.5 mile below bridge at, on sand ridge back of		
willow bar, 50 meters from bank, ridge lies between two small dry sloughs; copper bolt in tile surmounted by		
small dry sloughs; copper bolt in the surmounted by		
iron pipe (U.S.C.E.b.m. 166/2): Copper bolt	581.33	Bull. 569
Cap on pipe		Dun. 505
Sabula, 0.8 mile below, in bunch of elms on Island 269,		
200 meters below its head, 150 meters from river bank in		
line with cleared strip 50 meters wide running back		
from river, 100 meters from levee; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 166/3):		
Copper bolt	580.69	Bull. 569
Cap on pipe	584.72	
Sabula, in front of CM&StP Ry passenger station; base		m 11
of rail	603.84	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Sabula railroad bridge, cut on top of south end of second		TO 11 F40
pier from right bank (U.S.C.E.f.b.m. 27 R. B)	598.07	Bull. 569
Sabula bridge, gage on pier west of draw pier (U.S.C.E.), zero of gage	571.98	
Sabula Junction		CM&StP
Sac City		CM&StP
Sac City		Weather Bur.
Sac City	1274,G1274	C&NW
Sac Junction	1230	C&NW
Sageville, Dubuque Co., T. 90 N., R. 2 E., sec. 34, on west end of north abutment of bridge over Maquoketa river,		
in stone; bronze tablet stamped "621 DBQ"	622,600	Bull. 569
St. Ansgar	1175,G1175	IC
St. Anthony	1003.G997	M&StL
St. Benedict	1272,G1264	M&StL
St. Charles		CB&Q Weather Bur.
St. Charles	01070	weather bur.
4 E., iron post stamped "674"	666.028	Bull. 569
St. Donatus		USGS
St. Francisville, Mo., three miles south of Sand Prairie, Ia.		
Aluminum tablet on H. C. Campbell's residence		USGS
St. Francisville, Mo., Des Moines river, water surface St. Lucas, Fayette Co	6497 $1060$	USGS
St. Marys	1036	$egin{array}{c} { m IaGS} \\ { m CB\&Q} \end{array}$
St. Olaf		CM&StP
Salem		CB&Q
Salix	1082,G1084	C&NW
Salix, 2.5 miles south of, 240 feet south of farm crossing,		
46 feet east of railway; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 387):  Copper bolt	1,071.825	Bull. 569
Cap on pipe	1,075.851	Dan. 000
Salix, 1,270 feet south of station, 144 feet north of south		
headblock at Salix siding, 46 feet east of railway; copper		
bolt in bench-mark stone surmounted by iron pipe (U.		
S.C.E.p.b.m. 388 equals 140/3): Copper bolt	1 070 710	D.,11 560
Cap on pipe	1,078.718 $1,082.721$	Bull. 569
Salix, 2.8 miles north of, 623 feet north of road crossing,	1,002.121	
361 feet north of C. W. Wheeler's house, 47 feet east of		
railway, south side of old river bed; copper bolt in		
bench-bark stone surmounted by iron pipe (U.S.C.E.		
p.b.m. 389): Copper bolt	1,085.552	Bull. 569
Cap on pipe	1,089.558	Dun. 505
Samoa	595,G597	CM&StP
Sanborn	1547,G1552	CM&StP
Sand Prairie, B.M. top of monument M.P. 14	544.87	CRI&P
Sand Prairie, top of rail, depot	556.2	CRI&P
Sand Prairie, B.M. top of monument M.P 15	552.29	CRI&P CM&StP
Sand Spring	902,0902	OMEGU
railroad tracks, 500 feet north of switch; iron post stamped "849"		
stamped ''849''	840.097	Bull. 569
Sandusky	532	$^{\mathrm{CB\&Q}}$
Sandusky, Des Moines Rapids canal, 1 mile above middle lock of, between railroad track and osage hedge, 18.25		
meters west of center of track, 4.5 meters east of hedge,		
44.75 meters south of center of culvert 39A, 80 meters		
below large ice house standing between canal and rail-		
road, 15.5 meters north of gateway leading up bluff to		

	ELEVATION	
Station	FEET	AUTHORITY
vineyard and wine cellar, 45 meters west of canal, 30 meters above point opposite figure 35 painted on west slope of canal wall; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 112/2):		
Cap on pipe	519.04 523.07	Bull. 569
Sandusky, 1 mile above, on SW. cor. west end of south abutment of culvert 36A of CB&Q RR (U.S.C.E. 32 R. B)	511.78	Bull. 569
Sandusky, Des Moines Rapids canal, 1 mile below guard lock at upper end of, on side of bluff between railroad and public road, 13 meters west of center of track, at point 140.7 meters north of small box culvert, 15 meters east of center of road at point 58 meters south of blazed maple tree by roadside where it ascends to pass over point of hill, 25 meters west of canal, nearly opposite figures 68 painted on west slope of canal wall; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 113/3):		
Copper bolt	525.14	Bull. 569
Cap on pipe	529.15	
aluminum tablet stamped "941 Adj"	940.721	Bull. 569
Santiago Santiago, T. 80 N., R. 22 W., near cor. secs. 13, 14, 23 and 24, 650 feet east and 125 feet south of T road east, in root on NW. side of 2-foot cottonwood tree; copper nail	841.4	CGW
and washer, marked "802.9" on tree	803.06	USGS
way bridge on May 26, 1926, at 4 p.m	. 795.92	USGS
marked "805.7"  Santiago, T. 80 N., R. 22 W., at quarter corner between secs. 25 and 26, 20 feet south and 35 feet west of T road west, 225 feet SE. of A. Schneider's house, on concrete post; bronze tablet stamped "Prim. Trav. Sta. No.		USGS
17-L.S1924-Ia.'', marked "862.6''	862.786	USGS
per nail and washer		USGS USGS
Santiago, T. 80 N., R. 22 W., about 0.25 mile west of center sec. 26, 140 feet west and 17 feet south of T road north, in root on north side of 15-inch elm tree; copper		
nail and washer, marked "883.0"	883.17	USGS
culvert heading; chiseled square, marked "911.2" Santiago, T. 80 N., R. 22 W., 0.25 mile west of center of sec. 22, 30 feet east and 30 feet south of elbow in road from south to west, in root on north side of 30-inch forked maple tree; copper nail and washer, marked	911.41	USGS
Santiago, 2 miles west, 1 mile north of, T. 80 N., R. 22 W., at cor. secs. 15, 16, 21 and 22, 225 feet west of elbow, west and south, 80 feet north and 60 feet west of schoolhouse, on concrete post: bronze tablet stamped "Prim.	911.64	USGS
Trav. Sta. No. 16-L.S. 1924-Ia."	, 846.857	USGS

	ELEVATION	
STATION	FEET	AUTHORITY
on top of north heading of concrete culvert; chiseled	000 45	TT 0 0 0
Santiago, 2 miles west, 2 miles north of, T. 80 N., R. 22	838.45	USGS
W., at center of NE. 4 of sec. 16, 40 feet north and		
20 feet west of road corner, south and west, in root on		
west side of 15-inch pine tree; copper nail and washer, marked "850.8"	851.05	USGS
Santiago, 3 miles west, 2 miles north of, T. 80 N., R. 22		- 12 - 11-
W., at corner secs. 8, 9, 16 and 17, 45 feet north and 20 feet west of crossroads, in root on SE. side of 4-foot		
cottonwood tree; copper nail and washer, marked		
('903.8')	904.13	USGS
Sargents Bluff	1093,G1095	C&NW C&NW
Sargents Bluff, 2.8 miles south of, 1,900 feet south of	1001	0.0011111
milepost 66, 656 feet north of road crossing, 1,352 feet		
north of Louis Godferson's house, 46 feet east of railway; copper bolt in bench-mark stone (U.S.C.E.p.b.m.		
390):		
Copper boltCap on pipe	1,085.257	Bull 569
Sargents Bluff, in lot 1, block 2, 10 feet from SW. eor. E.	1,089.273	
T. Berry's house, 52 feet from NW. cor. Tenth and Wal-		
nut Sts.; copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 391 equals 142/3):		
Copper bolt	1,090.273	Bull 569
Cap on pipe	1,094.263	,
Sargents Bluff, 3 miles north of, 47 feet east of railway, 1,476 feet south of road crossing, 2 feet west of east		
right of way fence; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 392):	1 002 020	D11 #60
Cap on pipe	1,093.039 1,097.055	Bull 569
Sargents Bluff, T. 87 N., R. 48 W., 680 feet north of SW.	.,,	
cor. sec. 12, at east side of section-line road, on premises of E. R. Allen: copper helt in tile symmounted by		
ises of E. R. Allen; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 141/2):		
Copper bolt	1,087.84	Bull. 569
Cap on pipe	1,091.90	
east of NE. cor. intersection of Locust and Sattre		
roads; iron post stamped "1159 DBQ"	1,158.943	Bull. 569
Savanna, Ill		CM&StP CB&Q
Saylor	960, <del>G</del> 961	C&NW
Scarville		C&NW
SchallerSchleswig	1493	C&NW C&NW
Schleswig, hills in SE. 1/4 sec. 24, T. 85 N., R. 40 W	1535	IaGS
Scotch GroveScranton	876,G876	CM&StP C&NW
Searsboro		M&StL
Secor		C&NW
Sedan, Shenandoah lineSedan, Fort Madison line		CB&Q CB&Q
Sedan, crossing Shenandoah line CB&Q	830,G831	ČB&Q
Sedan, junction I&StL	831	CB&Q
Selection		WRR ISU
Selma, top of upstream side of second tube pier west of		
east end of highway bridge (U.S.C.E.b.m. 89)	613.28	Bull, 569
Selma, B.M. top of monument M.P. 57	611.03	CRI&P

	ELEVATION	
Station	FEET	AUTHORITY
Selma, B.M. top of monument M.P. 58	613.11	CRI&P
Selma, top of rail, center of depot (U.S.C.E.b.m. 41)	615.8	CRI&P
Selma, B.M. top of monument M.P. 60	615.29	CRI&P
Selma, B.M. top of monument M.P. 61	617.12	CRI&P
Seney	227.8,G1227	CStPM&O
Sewal Sexton	1102,01100	CM&StP
Seymour		CM&StP CRI&P
Seymour, crossing CM&StP	1059	CRI&P
Seymour	1070.G1074	CM&StP
Seymour	1066.G1069	CM&StP
Seymour	G1079	Weather Bur.
Shady Oak, crossing Des Moines river	1023.65	FtDDM&S
Shady Oak, about 3 miles south by 1 mile east of Fort		
Dodge, at FtDDM&S Ry crossing over Des Moines river,		
200 feet south of north end of bridge, 6.5 feet below		
level of track, in west concrete abutment; bronze tablet	1 01 = 040	TTOOO
stamped "Towa 1919 1018"	1,017.860	USGS
Shady Oak, 1.02 miles north of, 60 feet north of hollow		
coming in from west, 4 feet west of track, in base of power transmission pole, marked "1,050"; spike	1 050 14	USGS
Shady Oak, T. 86 N., R. 28 W., near quarter cor., north	1,050.14	abau
side of sec. 33, at highway and interurban railway cross-		
ing, 30 feet south of crossing, 5 feet east of track, in		
top of sawed off telephone pole standing 2 feet above		
ground marked '1,103'; copper bolt	1,103.05	USGS
Shaffton, DRI&NW station	´ 599	CM&StP
Shaffton	600.25	CD&M
Shaffton, crossing CRI&P	601.81	$\mathrm{CD}\&\mathbf{M}$
Shaffton		DRI&NW
Shaffton, DRI&NW station	595	CB <b>&amp;Q</b>
Shaffton, 200 meters above mouth of Wapsipinicon river,		
10 meters from river bank opposite foot of Adams Is-		
land, 20 meters north of a shanty, 8 meters 219° 30' to		
20-inch white-oak tree; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 157/3):		
Copper bolt	575.64	Bull. 569
Cap on pipe	579.64	Dun. 909
Shaffton, opposite, 3 miles below Albany, 15 meters from	010101	
river bank, opposite point midway between Island 295		
and first towhead below, 2.5 meters 121° 30' to 15-inch		
elm, 58 meters 326° 30′ to 18-inch elm tree; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.b.m. 158/3):		
Copper bolt	574.66	Bull. 569
Cap on pipe	578.68	
Shaffton, see also Folletts, which is adjacent	000 0070	an a o
Shambaugh	983,G973	CB&Q
Shannon City		CGW. CRI&P
Sharpsburg		CB&Q
Shawondassee Club station, 6 miles below Dubuque, on line	1213,01210	CDac
CM&StP Ry, 76 feet below south end of platform and		
86 feet above boundary fence between Paul Eiffer's and		
Frank Noel's lands, on west side of track, 47.1 feet		
from center; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.p.b.m. 286 and 287):		
Copper bolt	602.771	Bull. 569
Cap on pipe	606.771	Am = a
Sheffield	1079	CRI&P
Sheffield		M&StL
Shelby	1292,G1295	CRI&P

Station	ELEVATION FEET	AUTHORITY
Shelby, 3 miles west of, in NE. stone abutment of CRI&P		
Ry bridge 475; aluminum tablet	1,289.328	Bull. 569
Shelby, in front of CRI&P Ry station; top of rail	1,296	Bull. 569
Shelby, 160 feet west of CRI&P Ry track, opposite a point	•	
150 feet north of station, near corner of park; iron post	1,294.654	Bull. 569
Sheldahl	103 <b>5,</b> G1038	C&NW
Sheldahl, T. 81 N., R. 25 W., NW. cor. sec. 13; spike in	•	
telephone pole, marked "U.S.B.M. 960"	958.48	Bull. 569
Sheldahl, T. 81 N., R. 25 W., NW. cor. sec. 12; spike in		
fence post, marked "U.S.B.M. 1001"	999.52	Bull. <b>569</b>
Sheldahl, T. 82 N., R. 25 W., SE. cor. sec. 35; iron post stamped "1008"		
stamped '1008''	1,007.114	Bull. <b>569</b>
Sheldahl, T. 82 N., R. 25 W., SW. cor. sec. 25; spike in		
base of telephone pole marked "U.S.B.M. 1024"	1,022.33	Bull. 569
Sheldon	1418,G1421	IC
Sheldon, crossing CM&StP	1420	IC
Sheldon, crossing CStPM&O	1416	IC
Sheldon	1409,61415	CM&StP
Sheldon, crossing CStPM&O	1409,61415	CM&StP
Sheldon, crossing IC	1415,61421	CM&StP
Sheldon, crossing CM&StP, union station	1414.1	CStPM&O
Sheldon, crossing IC	1413.7	CStPM&O
Shell Rock9	1475	IaGS
Shell Rock, crossing CRI&P	029 5	. CGW
Shell Rock	932.5	CGW CRI&P
Shellsburg	925,0321 776 G774	CRI&P
Shenandoah	981	WRR
Shenandoah, crossing CB&Q	976	WRR
Shenandoah, Red Oak-Hamburg line	978 4 G974	CB&Q
Shenandoah, junction Red Oak and Shenandoah line	971.15	CB&Q
Shenandoah, crossing Wabash	973	$\overrightarrow{CB}$
Shepard11	67.8.G1164	CGW
Sherman	1133	CRI&P
Sherrill, 3 miles north and 1 mile west of, T. 91 N., R. 1 E., in fraction of Jefferson Tp., near SE. cor. sec. 35, in		
in fraction of Jefferson Tp., near SE. cor. sec. 35, in		
field; iron postSherwood	897.778	Bull. 569
Sherwood	1232,G1233	$\mathbf{IC}$
Shipley	962	CRI&P
Shipley, T. 83 N., R. 24 W., center of east side of sec. 25:		
spike in telephone pole, marked "U.S.B.M. 932"	930.28	Bull. 5 <b>6</b> 9
Shipley, T. 83 N., R. 23 W., 0.25 mile east of west end of		
south border of sec. 19, iron post stamped "870"	869.015	Bull. 569
Shipley, T. 83 N., R. 23 W., 0.25 mile east of SW. cor. sec.		
20, NE. cor. crossroads; spike in telephone pole, marked	000.00	D-11 500
('Ú.S.B.M. 888''	886.92	Bull. 569
Shipley, T. 83 N., R. 23 W., SW. cor. sec. 21; spike in telephone pole, marked "U.S.B.M. 921"	010.01	D.,11 560
Shipley, T. 83 N., R. 23 W., NE. cor. NW. ¼ sec. 27; iron	919.81	Bull. 569
post stamped "958",	057 011	Dull 560
	957.011	Bull. 569
Shipley, T. 83 N., R. 23 W., NW. cor. NE. ¼ sec. 34; spike in telephone pole, marked "U.S.B.M. 972"	970.36	Bull. 569
Shipley T 83 N R 23 W SW cor SE 1/ sec 34.	010.00	Duii. 505
Shipley, T. 83 N., R. 23 W., SW. cor. SE. ¼ sec. 34; spike in telephone pole, marked "U.S.B.M. 1010"	1,008.33	Bull. 569
Shipley, T. 83 N., R. 23 W., NE. cor. NW. 14 sec. 27,	1,000.00	<b>D</b> un. 000
0.2 mile west of Shipley, SW. cor. crossroads; iron post		
stamped "958"	957.011	Bull. 569
Shipley, T. 83 N., R. 23 W., cor. secs. 21, 22, 27 and 28,		
0.8 mile west of Shipley, center of forks at T road north;		
chiseled square on top of corner stone, marked "961.1"		Bull. <b>56</b> 9
Shipley, T. 83 N., R. 23 W., SE. cor. sec. 16, NW. cor.		

Contract	ELEVATION	A
STATION crossroads; copper nail in top of corner fence post,	FEET	AUTHORITY
marked "988.5"	987.45	Bull. 569
marked ''988.5'' Shipley, T. 83 N., R. 23 W., NW. cor. sec. 15, SE. cor.		
crossroads; copper nail in top of corner fence post,	967.15	Bull. 569
Shopton	521.3	AT&SF
Shopton, top of T-rail marker M.P. 235	521.41	AT&SF
Showman, South Skunk river near	657	IaGS
Sibley	1516.0	CStPM&O CStPM&O
Sibley, 1 mile south of state line, also 3600 feet south of	1506.4	OSTEMAO
state line, about 1 mile south of Bigelow, Minn., track		
level	1653.6	CStPM&O
Sibley, 3500 feet south of state line, upland level	1659	CStPM&O CRI&P
SibleySibley, crossing CStPM&O	1508,G1502	CRI&P
Sibley, center Wilson Tp.	1670	IaGS
Sibley	G1512	Weather Bur.
Sidney	1052,G1049 1156	CB&Q IaGS
Sidney, public squareSidney, Nishnabotna bottoms east of	915	IaGS
Sigourney	752	CRI&P
Sigourney	751	CRI&P
Sigourney Sigourney, under crossing CRI&P	785,G790 G763	CM&StP CM&StP
Sigourney, under crossing CtderSigourney, under crossing, CM&StP tracks	785	CM&StP
Sigourney, Bridge creek east of	693	IaGS
Sigourney, Bridge creek north of	713	IaGS
Sigourney, German creek east of	688 808	IaGS IaGS
Sigourney, South, North Skunk river	658	City levels
Silver City	1046	$\overline{ m WRR}$
Sinclair		IC
Sinclair, crossing under C&NW Sioux Center	$934 \\ 1447$	IC GN
Sioux City, 22d St. Tel. office	1111.88	CStPM&O
Sioux City		CM&StP
Sioux City	1106	IC
Sioux City, east main track, depot	1103	$_{\mathrm{C\&NW}}^{\mathrm{GN}}$
Sioux City, crossing GN	1104	C&NW
Sioux City, crossing IC	1102	C&NW
Sioux City, Missouri river, extreme low water, 1882	G1076	Mo. River Com.
Sioux City, Missouri river, extreme high water, 1881 Sioux City	G1099 G1135	Mo. River Com. Weather Bur.
Sioux City, 558 feet south of Missouri river bridge, 148	01100	77 000 000 000 000 1000 1000 1000 1000
feet north of railroad bridge 60, 20 feet east of rail-		
way; copper bolt in bench-mark stone surmounted by		
iron pipe (U.S.C.E.p.b.m. 393): Copper bolt	1,098.038	Bull. 569
Cap on pipe	1,102.058	2011. 000
Sioux City, in NW. cor. east pier of Missouri river bridge,	,	
2 feet above ground, in seventeenth course of masonry below coping course; copper bolt (U.S.C.E.p.b.m. 394).	1 105 670	Bull. 569
Sioux City, 103 feet west of west side of eastern or shore	1,105.670	ъщі. 509
pier of Missouri river bridge, almost vertically under		
north truss of east span and 69 feet west of railway;		
copper bolt in bench-mark stone surmounted by iron pipe (U.S.C.E.p.b.m. 395, gage bench mark):		
Cap on pipe	1,094.076	Bull. $56\mathring{9}$
Cap on pipeSioux City, in SW. cor_courthouse yard, 72 feet from SW.	,	
cor. courthouse, 135 feet from SE. cor. of same; copper		

STATION bolt in bench-mark stone (U.S.C.E.p.b.m. 396 equals	ELEVATION FEET	AUTHORITY
143/3):		
Copper bolt	1,106.218	Bull, 569
Cap on pipe	1,110.237	Dun. 000
Sioux City, 39 feet north of NE. cor. Fifth and Pierce Sts.;	,	
top of ring bolt in sidewalk stone (U.S.C.E.t.b.m. 996)	1,108.512	Bull. 569
Sioux City, 3.5 miles above, 0.25 mile north of electric		
railway power house at Riverside Park, 121 feet north		
of north headblock, at foot of bluff, 52 feet east of rail-		
way, copper bolt in bench-mark stone surmounted by		
iron pipe (U.S.C.E.p.b.m. 397): Copper bolt	1,100.296	Bull. 569
Cap on pipe	1,104.312	Dun. 505
Sioux City, 6 miles above, 515 feet south of south end of	1,101,01	
railway bridge over Big Sioux river, 3 feet east of west		
right-of-way fence; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 398):		
Copper bolt	1,102.875	Bull. 569
Cap on pipe	1,106.884	
Sioux City, 6 miles above, on land of Mrs. Rose Pacquette,		
50 feet west of CM&StP Ry track, 190 feet south of south end of railway bridge over Big Sioux river, 5 feet		
west of right-of-way fence; copper bolt in bench-mark		
stone surmounted by iron pipe (U.S.C.E.p.b.m. 399):		
Copper bolt	1,098.367	Bull. 569
Cap <sup>1</sup> on pipe	1,102.373	
Sioux City, head of Bacon Hollow	1398	City Engineer
Sioux City, top of Prospect Hill		City Engineer
Sioux City, top of sandstone, Prospect Hill	1097	City Engineer
Sioux Falls, S. Dakota	1396,641396	IC
Sioux Falls, East, S. Dakota	1320,61323	$^{ m IC}_{ m C\&NW}$
Sioux Rapids	1278	C&NW
Sionx Rapids	1309 G1308	M&StL
Sioux Rapids, crossing over C&NW	1296	M&StL
Sioux Rapids, crossing, C&NW tracks	1266	M&StL
Slater	1042	C&NW
Slater, union station with C&NW	L041,G1040	${ m CM\&StP}$
Slater, T. 82 N., R. 25 W., south cor. between secs. 26 and	1 00= 00	70 11 700
27; spike in telephone pole, marked "U.S.B.M. 1008"	1,007.00	Bull. 569
Slater, T. 82 N., R. 25 W., NW. cor. sec. 25; spike in fence post, marked "U.S.B.M. 1040"	1 000 60	D.11 560
Slater, T. 82 N., R. 25 W., SE. cor. sec. 14; iron post	1,038.63	Bull. 569
stamped "1049"	1,047.809	Bull. 569
Slater, T. 82 N., R. 25 W., NE. cor. sec. 14; spike in tele-	_,,,,	
phone pole, marked "U.S.B.M. 1044"	1,042.59	Bull. 569
Slater, T. 82 N., R. 25 W., SW. cor. sec. 1; spike in fence post, marked "U.S.B.M. 1040"	•	
	1,037.60	CRI&P
Slifer		CRI&P
Sloan	L074,G1076	C&NW
Sloan, T. 85 N., R. 47 W., 1,068 feet north of west quarter		
post of sec. 22, opposite Omaha Mission, on east side of section-line road, in dooryard of George Nelson; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
138/2):		
Copper bolt	1,066.95	Bull. 569
Cap on pipe	1,071.02	
Sloan, T. 86 N., R. 47 W., 1,670 feet south of NE. cor. sec.	, -	
26, on west side of north-south road; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 139/2):		
Copper bolt	1,071.28	Bull. 569
Cap on pipe	1,075.35	

<sup>1</sup> In 1905 Cap reported stolen

	ELEVATION	Avenue
STATION  Show 2 miles couth of 1 245 fact couth of milescent 50	FEET	AUTHORITY
Sloan, 3 miles south of, 1,345 feet south of milepost 52, 47 feet west of railway; copper bolt in bench-mark stone		
surmounted by iron pipe (U.S.C.E.p.b.m. 383 equals		
138/3):		
Copper bolt	1,062.826	Bull. 569
Cap on pipe	1,066.888	
south of south side of east-west public road; copper		
bolt in bench-mark stone surmounted by iron pipe (U.S.		
C.E.p.b.m. 384):		
Copper bolt	1,068.075	Bull. 569
Cap on pipe	1,072.078	
Sloan, on corner of Fourth and Evans Sts.; cross cut on NE. cor. of stone doorsill of State bank (U.S.C.E.p.b.m.		
385)	1,076.622	Bull. 569
Sloan, 5,256 feet north of station, 879 feet south of mile-	_,0	
post 56, 49 feet west of railway; copper bolt in bench-		
mark stone surmounted by iron pipe (U.S.C.E.p.b.m.		•
386 equals 139/3):	1 000 004	D.,1 560
Cap on pipe	1,069.624 $1,073.630$	Bul. 569
Smithland	1,073.030 1078.G1080	IC
Smithland, crossing CM&StP		ĪČ
Smiths, Jackson Co.	611,G607	CM&StP
Smiths, 1.2 miles below, behind Bellevue slough, on CM&St		
P Ry, 148 feet below stone culvert about in center of		
short, heavy fill, at lower end of long curve, 60 feet east of center of track, several feet outside of right of way,		
1,902 feet above bridge 50, on 10-inch oak tree; spike in		
root (U.S.C.E.t.b.m. 323)	608.798	Bull. 569
Smiths, 0.8 mile above, on opposite side of track from t.b.		
m. 321, at head of Bellevue slough, 110 feet above bridge		
56, 55 feet below lower line of A. M. Brown's house, 12		
feet below cattle guard, on river side of track, 16 feet from center, on small bench of ground between cattle		
guard and gate leading down to river; copper bolt in		16
tile surmounted by iron pipe (U.S.C.E.p.b.m. 298 and		
299):		
Copper bolt	602.147	Bull. 569
Cap on pipe	606.130	
at lower end of cut, in front of house owned by A. M.		
Brown, 15 feet below path running to this house, 125		
feet above bridge 56, at upper side of cattle guard, 12	-	
feet west of center of track, on natural ledge of rock,		
marked "U. S."; highest point in square (U.S.C.E.	607 607	D11 560
t.b.m. 321)	$607.607 \\ 1315$	Bull. 569 CM&StP
Sneffs		CM&StP
Snodgrass Siding		CB&Q
Sny Magill	628,G627	CM&StP
Sny Magill station, 1,214 feet below lower switch block of,		
50 feet below milepost 70 from LaCrosse, just east of west right of way fence, 30 feet from center of track,		
behind islands 176 and 178 on line of CM&StP Ry; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m.		
239 and 240):		
Copper bolt	624.539	Bull. 569
Cap on pipe	628.532	
post 68 from La Crosse, on south abutment of bridge		
378K of CM&StP Ry, at its east end, on third course of		

stone from top, 3 feet west from east end of stone and 3 inches back from north face, marked "UCS"; highest point in square (U.S.C.E.t.b.m. 232)	S/n a my o xy	ELEVATION	A TIMET OF THE
inches back from north face, marked "UDS"; highest point in square (USC.E.L.b.m. 232)  Sny Magill, on Island 176, 25 meters back from bank of river, 100 meters above head of Wyalusing Slough, which is opposite Wyalusing, Wis.; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/3):  Copper bolt	STATION stone from top 3 feet west from east end of stone and 3	FEET	AUTHORITY
point in square (U.S.C.E.b.m. 232) Sny Magill, on Island 176, 25 meters back from bank of river, 100 meters above head of Wyalusing Slough, which is opposite Wyalusing, Wis:, copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/3): Cap on pipe Sny Magill, opposite Wyalusing, Wis. on side of bluff, 1 meter east of perpendicular rock cliff, 25 meters west of center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; coper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4): Cap on pipe 653.03 Solberg 1209.9 Soldier 1133 C&NW Soldier 1141 WRB Solon 789, 6794 Solomon 789, 6794 Solomon 789, 6794 Somers, crossing CRI&P 1151.0, 61156 Somers, crossing CRI&P 1151.0, 61156 Somers, crossing CRI&P 1151.0, 61156 Somers, crossing IC 1515 Somers, crossing IC 1515 South Amana 880, 6882 South Amana 7445, 6746 South English 823, 6840 South Insplish 823, 6840 South Insplish 823, 6840 South Insplish 823, 6840 South Insplish 823, 6840 South Way in corner of fence of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff, copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 620, popping 134, 255 feet south from center of track, 20 feet form can wing fence to bridge 128, in slope of bluff, copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and rairoad bridge 134, 255 feet south from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff, copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at	inches back from north face, marked "U\S"; highest		
river, 100 meters above head of Wyalusing Slough, which is opposite Wyalusing, Wis:, copper bot in tile surmounted by iron pipe (U.S.C.E.b.m. 195/3):  Cap on pipe	point in square (U.S.C.E.t.b.m. 232)	624.822	Bull. 569
is opposite Wyalusing, Wis.; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.n. 195/3):  Copper bolt 612.73  Cap on pipe 616.68  Sny Magill, opposite Wyalusing, Wis., on side of bluff, 1 meter east of perpendicular rock cliff, 25 meters west of center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4):  Copper bolt 649.08  Cap on pipe 653.03  Solberg 1209.9 CGW Soldier 11519,G1157  Solomon 7789,G794  Congers, crossing CRI&P 11519,G1157  Somers, crossing CRI&P 11510,G1156  CGW Somers, crossing CRI&P 11510,G1156  CGW Somers, crossing CGW 1156  South Amana 880,G882  South Amana 745,G746  South Amana 745,G746  South Amana 745,G746  South Number 3 977  South Amana 749,G1348  CRI&P  South Number 3 977  South Magill, opposite Wyalusing, wis, on side of bridge 128  over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269  and 270):  Capper bolt 618.092  Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269  and 270):  Capper bolt 62.50  Cap on pipe 609.572  C	Sny Magill, on Island 176, 25 meters back from bank of		
mounted by iron pipe (U.S.C.E.b.m. 195/3):   Copper bolt	is opposite Wyalusing. Wis.: copper holt in tile sur-		
Copper bolt 612.73 Gay on pipe 616.68  Sny Magill, opposite Wyalusing, Wis., on side of bluff, 1 meter east of perpendicular rock cliff, 25 meters west of center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 19574):  Copper bolt 649.08 Cap on pipe 653.03 Solberg 1209.9 CGW Soldier 1133 C&NW Soldier 1133 C&NW Soldier 1134 CRIKE Solon 789,G794 CRIKE Somens, crossing CRIKEP 1151.9,G1157 CGW Somers, crossing CRIKEP 1151.9,G1156 CRIKEP Somers, crossing IC 1158 CRIKEP Somens, crossing IC 1158 CRIKEP South Amana 880.G882 CM&StP South Amana 745.G746 CRIKEP South Lenglish 832,G840 South Number 3 1949.6,G1348 CRIKEP South English 832,G840 South William 1949.6,G1348 CRIKEP South English 832,G840 South English 842,G840 South English 843,E84,E84,E84,E84,E84,E84,E84,E84,E84,E84	mounted by iron pipe (U.S.C.E.b.m. 195/3):		
meter east of perpendicular rock cliff, 25 meters west of center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4):  Copper bolt 649.08 653.03 Solberg 1209.9 CGW Soldier 1133 C&NW Solomon 1141 WRR Solomon 759,6794 CRI&P Somers, crossing CRI&P 1151.0,61157 CGW Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,6882 CM&StP South Amana 745,6746 CRI&P South Amana 745,6746 CRI&P South Amana 745,6746 CRI&P South Number 3 977 Spaulding 1349.6,61348 CRI&P South Number 3 977 ISU Spaulding 1349.6,61348 CRI&P Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 61.05 Cap on pipe Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268): Copper bolt 609.572 Cap on pipe 650.5 (Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268): Copper bolt 609.572 Cap on pipe 670.572 Cap on pipe 670.572 Cap on pipe 670.573 Cap on pipe 770.573 Cap on pipe 770.573 Cap on pipe 770.574 Cap on pipe	Copper bolt		Bull. 569
meter east of perpendicular rock cliff, 25 meters west of center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4):  Copper bolt 649.08 653.03 Solberg 1209.9 CGW Soldier 1133 C&NW Solomon 1141 WRR Solomon 759,6794 CRI&P Somers, crossing CRI&P 1151.0,61157 CGW Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,6882 CM&StP South Amana 745,6746 CRI&P South Amana 745,6746 CRI&P South Amana 745,6746 CRI&P South Number 3 977 Spaulding 1349.6,61348 CRI&P South Number 3 977 ISU Spaulding 1349.6,61348 CRI&P Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 61.05 Cap on pipe Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268): Copper bolt 609.572 Cap on pipe 650.5 (Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268): Copper bolt 609.572 Cap on pipe 670.572 Cap on pipe 670.572 Cap on pipe 670.573 Cap on pipe 770.573 Cap on pipe 770.573 Cap on pipe 770.574 Cap on pipe	Cap on pipe	616.68	
center of CM&StP Ry track, 40 meters above log house, on path leading from log house to spring, 300 meters above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m., 195/4):  Copper bolt 649.08 653.03 Solberg 1209.9 CGW Soldier 1133 WRR Solomon 789,G794 CRI&P Somers 1151.0,G1156 CGW Somers, crossing CRI&P 1151.0,G1156 CGW Somers, crossing CRI&P 1151.0,G1156 CGW Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,G882 CM&StP South Amana 880,G882 CM&StP South Amana 880,G882 CM&StP South Amana 745,G746 CRI&P South Number 3 977 ISU South Number 3 1349.6,G1348 CRI&P Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 619, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 609.572 613.585 Spechts Ferry, 1.5 miles below, at Parsons bar, on exterme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 609.572 613.585 Spechts Ferry, 1.5 miles below, at Parsons bar, on exterme point of bluff, between rock quarry where t.b.m. 280 613.585 Spechts Forty, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "UDS"; highes	meter east of perpendicular rock cliff. 25 meters west of		
above railroad bridge 364 over Sny Magill creek; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4):  Copper bolt 649.08 Cap on pipe 653.03 Solberg 1209.9 CGNW Soldier 11133 C&NW Solomon 789,6794 Somers 789,6794 Somers 1151.9,61157 CGW Somers, crossing CRI&P 1151.0,61156 CGW Somers, crossing CRI&P 1151.0,61156 CGW Somers, crossing CGW 1158 Somers, crossing IC 1158 Somers, crossing IC 1158 Somers, crossing IC 1158 Someth Amana 880,6882 South Amana 880,6882 CM&StP South Amana 745,6746 CRI&P South Mumber 3 1349.6,61348 South Number 3 1349.6,61348 Spechts Ferry, 1.5 miles below, 2.2 miles above Little Maquokcta river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bufff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt 619 Cap on pipe 619 Cap on pipe 619 Copper bott 629 Cap on pipe 719 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt 609.572 Cap on pipe 719 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; on right of way, in corner of fence formed by main fence and wing fence to bridge 128 or hand 1290.  Cap on pipe 80 Spechts Ferry, 1.5 miles below at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; on preper bluff of track; on preper	center of CM&StP Ry track, 40 meters above log house,		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 195/4):  Copper bolt 649.08 653.03  Solberg 1209.9 CGW Soldier 1133 C&NW Solomon 1141 Solon 789,G794 CRI&P Somers 11519,G1157 CGW Somers, crossing CRI&P 11510,G1156 CGW Somers, crossing CGW 1158 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,G882 CM&StP South Amana 745,G746 CRI&P South Amana 745,G746 CRI&P South English 832,G840 CRI&P South English 832,G840 CRI&P South In 1916 South In 1916 CRI&P South In 1916 South In 1916 CRI&P South In 1916 CRI&P South Serry 1917 Spaulding 1349.6,G1348 CB&Q Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 618.092 G2.119 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Cap on pipe 600 609.572 G13.585 Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U_S"; highest point in square (U.S.C.E.t.b.m. 280) Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U_S"; highest point in natural ledge of rock, marked "U_S"; highest point in natural ledge of rock, marked "U_S"; highest point in natu			
Copper bolt	bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
Copper bolt 649.08 Bull. 569 Cap on pipe 653.03 Solberg 1209.9 Soldier 1133 C&NW Solmon 1141 Solon 789,G794 CRI&P Somers 1151.9,G1157 CGW Somers, crossing CRI&P 1151.0,G1156 CGW Somers, crossing CGW 1156 Somers, crossing CGW 1156 Somers, crossing IC 1156 South Amana 880,G882 South Amana 880,G882 South Amana 880,G882 South Amana 977 Spaulding 1349.6,G1348 Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 619.0 Cap on pipe 622.119 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 260 and 270): Copper bolt 609.572 Cap on pipe 622.119 Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 280) Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked "UDS"; highest point in natural ledge of rock, marked	195/4):	1 7	همدام الدارات الأراء
Solberg 1209.9 CGW Soldier 1133 C&NW Solomon 1141 WRR Solom 789,6794 Somers 1151.9,61157 CGW Somers, crossing CRI&P 1151.0,G1156 CRI&P Somers, crossing CGW 1156 CRI&P Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,6882 South Amana 880,6882 South English 832,6840 CM&StP South English 832,6840 CRI&P Sout	Copper bolt	649.08	Bull. 569
Soldier 1133 C&NW Solomon 789,6794 CRI&P Somers 789,6794 CRI&P Somers 1151.9,G1157 CGW Somers, crossing CRI&P 1151.0,G1156 CGW Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1156 CRI&P South Amana 880,G882 CM&StP South Amana 880,G882 CM&StP South Amana 745,G746 CRI&P South Number 3 977 ISU Spalding 1349.6,G1348 CRI&P Spechts Ferry 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 612, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270): Copper bolt 622.119 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268): Copper bolt 609.572 Cap on pipe 613.585 Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U_S"; highest point in square (U.S.C.E.t.b.m. 280) 618.565 Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U_S"; highest point in	Cap on pipe	653.03	CGW
Solomon	Soldier		
Somers crossing CRI&P 1151.9,G1156 CGW Somers, crossing CRI&P 1151.0,G1156 CRI&P Somers, crossing CGW 1156 CRI&P Somers, crossing IC 1156 CRI&P Somers, crossing IC 1181 CRI&P South Amana 880,G882 CM&StP South Amana 745,G746 CRI&P South Amana 745,G746 CRI&P South Amana 745,G746 CRI&P South English 832,G840 CRI&P South Number 3 977 ISU Spaulding 1349.6,G1348 CRI&P South Number 3 977 ISU Spaulding 1349.6,G1348 CRI&P Spechts Ferry 15 Imiles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt 61 Cap on pipe 62.119 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt 609.572 Gap on pipe 613.585  Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 280) 618.565  Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock marked "UDS"; highest point in highest point in square (U.S.C.E.t.b.m. 280) 618.565	Solomon	1141	WRR
Somers, crossing CRI&P			
Somers, crossing CGW	Somers crossing CRI&P	51.9,G1157	
Somers, crossing CGW 1156 CRL&P Somers, crossing IC 1181 CRI&P South Amana 880,6882 CM&StP South Amana 880,6882 CM&StP South Amana 745,6746 CRL&P South English 832,6840 CRL&P South Number 3 977 ISU Spaulding 1349.6,61348 CPL&P Spaulding 1349.6,61349 CPL&P Spaulding 1349.6,613,	Somers	1158	
South Amana	Somers, crossing CGW	1156	
South Amana 745,G746 South English 832,G840 CRI&P South Number 3 977 Spaulding 1349.6,G1348 Spechts Ferry 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt 618.092 Cap on pipe 622.119 Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt 609.572 Cap on pipe 613.585 Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 280) 618.565 Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "UDS"; highest point in			
South English			
Spaulding	South English	832,G840	
Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt	South Number 3	977	
Spechts Ferry, 3.1 miles below, 2.2 miles above Little Maquoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt	Spechts Ferry	613.G613	
quoketa river, on line of CM&StP Ry, 912 feet below milepost 108-53, and opposite lower end of bridge 128 over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt	Spechts Ferry, 3.1 miles below, 2.2 miles above Little Ma-	010,0010	0======
over Leisures Creek, 49 feet east from center of track, on right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt	quoketa river, on line of CM&StP Ry, 912 feet below		
right of way, in corner of fence formed by main fence and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt	milepost 108-53, and opposite lower end of bridge 128		
and wing fence to bridge 128, in slope of bluff; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 269 and 270):  Copper bolt			4
and 270):  Copper bolt Cap on pipe  Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt Cap on pipe  Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U□S"; highest point in square (U.S.C.E.t.b.m. 280)  Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U□S"; highest point in	and wing fence to bridge 128, in slope of bluff; copper		
Copper bolt			
Cap on pipe  Spechts Ferry, 1.5 miles below, at Parsons bar, on extreme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Cap on pipe  Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 280)  Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "UDS"; highest point in	Copper bolt	618,092	Bull, 569
treme point of bluff, between rock quarry where t.b.m. 280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt	Cap on pipe		
280 is located and railroad bridge 134, 25.5 feet south from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt	Spechts Ferry, 1.5 miles below, at Parsons bar, on ex-		
from center of track; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt	treme point of bluin, between rock quarry where t.b.m.		
iron pipe (U.S.C.E.p.b.m. 267 and 268):  Copper bolt  Cap on pipe  Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U□S"; highest point in square (U.S.C.E.t.b.m. 280)  Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U□S"; highest point in	from center of track; copper bolt in tile surmounted by		
Cap on pipe	iron pipe (U.S.C.E.p.b.m. 267 and 268):	400 550	70 11 700
Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U\S"; highest point in square (U.S.C.E.t.b.m. 280)	Copper bolt		Bull. 569
borrow pit at lower end, and base of heavy sidehill cut, 300 feet more or less above bridge 134, where railroad leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 280)	Spechts Ferry, 1.5 miles below, at Parsons bar, in cove or	010.000	
leaves river bank and enters woods, on natural ledge of hard rock, 50 feet from track center, marked "U\sigmas"; highest point in square (U.S.C.E.t.b.m. 280)	borrow pit at lower end, and base of heavy sidehill cut,		
hard rock, 50 feet from track center, marked "U\S"; highest point in square (U.S.C.E.t.b.m. 280)	300 feet more or less above bridge 134, where railroad		
highest point in square (U.S.C.E.t.b.m. 280)	hard rock 50 feet from track center marked "UDS":		
Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5 mile above milepost 106-55, 82 feet below large bare ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "UDS"; highest point in	highest point in square (U.S.C.E.t.b.m. 280)	618.565	Bull. 569
ledge of rock inclining at an angle of about 45° with horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U□S"; highest point in	Spechts Ferry, 0.3 mile below CM&StP Ry station at, 0.5		
horizon, on bluff side of track, 10 feet from center, on natural ledge of rock, marked "U□S"; highest point in	ledge of rock inclining at an angle of about 45° with		
natural ledge of rock, marked "U□S"; highest point in	horizon, on bluff side of track, 10 feet from center, on		
square (U.S.C.E.t.b.m. 279)		/d = 000	D.11 520
	square (U.S.C.E.t.b.m. 279)	617.899	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Spechts Ferry, 354 feet below center of CM&StP station,		
164 feet below bridge 140, 174 feet below lower side of		
stone milk house, 1 foot above fence forming west side		
of railroad cattle pen, on bluff side of track, 37.4 feet		
from center; copper bolt in tile surmounted by iron pipe (U.S.C.E.p.b.m. 265 and 266):		
Copper bolt	611.409	Bull. 569
Cap on pipe	615.409	Din: 000
Spechts Ferry, at NE. cor. Specht's house, on water table, but a few inches above corner, marked "BoM"; high-	0-01-00	
but a few inches above corner, marked "BOM"; high-		
est point on front segment of circle (U.S.C.E. old U.S.		
b.m, a)	615.927	Bull. 569
Spechts Ferry, on upper stone doorstep to Specht's stone		
house, downstream end, front edge, marked "O";		
highest point in upper portion of circle (U.S.C.E. old p.b.m. 30)	615.452	Bull. 569
Spechts Ferry, on right bank of Island 213, 0.8 mile below	010.402	, Dan. 202
its head, 15 meters back from bank of river on high		
ground, opposite rock quarry on right bank; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.b.m. 183/2):		
Copper bolt		Bull. 569
Cap on pipe	602.87	
Spechts Ferry, 1.5 miles below, 0.5 meter west of east right-of-way fence of CM&StP Ry, between tenth and	I	
eleventh telegraph poles, below signboard which reads	<b>L</b>	
"Slow to 6 miles an hour," 55 meters above wagon	•	
road crossing at rock quarry, 175 meters above railroad		
bridge 138K; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.b.m. 183/3):		
Copper bolt	613.35	Bull. 569
Cap on pipe	617.3	
Spechts Ferry, in front of CM&StP Ry station; base of		D.11 560
rail (U.S.C.E.) Spechts Ferry, Mississippi river, low water	613.80 G590	Bull. 569 Miss. Riv. Com.
Spechts Ferry, Mississippi river, high water	G611	Miss. Riv. Com.
Spechts Ferry, T. 91 N., R. 1 E., in fraction of Jefferson	1	
Tp., near SE. cor. sec. 35, in field; iron post	897.778	Bull. 569
Spencer	.1314.G1315	M&StL
Spencer, crossing CM&StP	.1305,G1315	M&StL
Spencer, Ia. & Dak. line	1919,01319	CM&StP
Spencer, Des Moines line Spencer, crossing M&StL Spencer, junction with Ia. & Dak. Div.	1918	CM&StP CM&StP
Spencer junction with Is. & Dak. Div.	1318	CM&StP
Spencer	. G1319	Weather Bur.
Sperry, union station with CRI&P	751	CB&Q
Sperry	. 753,G757	CRI&P
Spirit Lake	.1465,G1457	
Spirit Lake	. 1468	
Spirit Lake	. G1458 . 633	Weather Bur. CM&StP
Springdale	. 1117	
Spring Grove	553	CB&Q
Spring Hill	810,G817	CRI&P
Spring Hill	. 845,G846	CM&StP
Stacyville	.1203,G1208	IC
Stacyville Jct., South switch	.1189,G1189	
Stacyville Jct., North switch	. 1178	IC CANTO
Stanhope Stanhope, T. 86 N., R. 26 W., NW. cor. sec. 36, SE. cor	-1119,61122	C&NW
crossroads, at foot of corner fence post; chiseled square	•	
on top of stone, marked "1061.4"	. 1,060.47	Bull.569
Stanhope, 1 mile west by 4.5 miles south of, T. 86 N., R	•	

Q.,	ELEVATION	
STATION	FEET	AUTHORITY
25 W., NW. cor. sec. 31, on north-south township line be-		
tween Marion and Clear Lake townships, south of Stan-		
hope, SE. cor. crossroads, at fence corner; iron post		
stamped ''1033''	1,031.596	Bull.569
Stanhope, T. 86 N., R. 25 W., 0.1 mile east of south center		
of sec. 30, NE. cor. of T road north, in corner fence		
post; copper nail marked "1030.5"	1,029.63	Bull.569
Stanhope, 3.5 miles south of, T. 86 N., R. 25 W., SW. cor.		
sec. 20, NE. cor. T road north, in base of corner fence		
post; copper nail, marked "1046.0"	1,045.17	Bull.569
Stanhope, 3.5 miles south by I mile east of, T. 86 N., R.		
25 W., cor. secs. 20, 21, 28 and 29, in center of T road		
south at forks; chiseled square on top of corner stone,		
marked ''1062.5''	1,061.71	Bull.569
Stanley11	.06.7,G1106	cgw
Stanley, T. 91 N., R. 8 W., NE. cor. sec. 21, at crossroads;		
iron post stamped "1143 DBQ"	1,144.385	Bull.569
Stanton		CB&Q
Stanwood		C&NW
Stark		C&NW
Stark	821.5	CB&Q
Stark, crossing C&NW		CB&Q
State Center		M&StL
State Center		C&NW
Steamboat Rock		M&StL
Steen, Minn.	1485,G1485	IC
Stennett10	55.14,G1052	CB&Q
Steuben, platform	872,G871	CB&Q
Stilson		M&StL
Stimsons, abandoned	1207,G1205	CM&StP
Stockport		CB&Q
Stockton, main line	717,G720	CRI&P
Stockton, crossing Bennett line	711	CRI&r
Stockton, Bennett line		CRI&P
Stone City	815,G815	CM&StP
Stonega	1167	IC
Storm Lake	1435,G1436	IC
Storm Lake, connection M&StL	1440	IC
Storm Lake, crossing over CM&StP	1442.01437	IC
Storm Lake	1430,01427	CM&StP
Storm Lake, crossing M&StL	1430,01430	CM&StP
Storm Lake, crossing under IC	1417	CM&StP M&StL
Storm Lake	1402,01400	M&StL M&StL
Storm Lake, crossing CM&StP	1421	M&StL
Storm Lake, crossing IC		DM&CI
Story City		M&StL
Story City	1014,01011	C&NW
Story City, 1 mile east of, T. 85 N., R. 23 W., center of sec.	1010	OCTIV
7 at center of T read south, chicaled gauges in ten of		
7, at center of T road south; chiseled square in top of corner stone, marked "998.0".  Story City, 2.5 miles east of, T. 85 N. R. 23 W., east	997.06	Bull. 569
Story City 25 miles east of T 25 N R 22 W and	. 331.00	ъш. 503
center of sec. 8, SW. cor. crossroads; copper nail in base	•	
of telephone pole, marked '1009.8'	1,008.87	Bull. 569
Story City, 3.5 miles south of, T. 85 N., R. 24 W., SE. cor.	1,000.01	Dan. 000
sec. 26, NW. cor. crossroads, 50 feet west of fence cor-		
ner; copper nail in base of willow stump, marked		
('959.1')	958.10	Bull. 569
Story City, 3.5 miles south by 0.5 mile east of, T. 85 N., Rs		
23 and 24 W., cor. secs. 25, 36, 30 and 31; in center of		
crossroads; chiseled square on top of stone corner mark		
marked ''968.6''	967.65	Bull. 569
		530

	Er wr. m.o.r	•
Station	ELEVATION FEET	AUTHORITY
Story City, T. 85 N., R. 23 W., near south center of sec. 30,	FEGI	AUTHOMIT
in NW. cor. flooring of steel highway bridge over Skunk	040.50	70 11 700
river; painted spike head marked "944.5"	943.53	Bull. 569
Story City, T. 85 N., R. 23 W., SE. cor. sec. 30, NW. cor. forks at road north, 10 feet west of NW. fence corner,		
40 feet NW. of section corner stone; iron post stamped		
('973')	971.796	Bull. 569
Story City, 1.5 miles south by 4.5 miles west of, T. 85 N.,		
R. 24 W., SW. cor. sec. 17, NE. cor. crossroads; copper	1 007 00	T) 11 F40
nail in top of fence anchor post, marked "1068.3" Story City, 0.5 mile south by 4.5 miles west of, T. 85 N.,	1,067.32	Bull. 569
R. 24 W., SE. cor. sec. 7, NW. cor. crossroads, at fence		
corner; iron post stamped "1047"	1,045.580	Bull. 569
Story City, 0.5 mile north by 4.5 miles west of, T. 85 N.,	,	
R. 24 W., SE. cor. sec. 6, NW. cor. crossroads; copper		
nail in top of west end of plank drain under road north, marked "1018.5"	1,017.52	Bull. 569
Story City, 2.5 miles south of, T. 85 N., R. 24 W., SE. cor.	1,017.02	Dan. 909
sec. 23, NW. cor. road forks, copper nail in base of wil-		
low tree at fence corner, marked "1088.6." (This		
marking is probably an error)	987.66	Bull. 569
Story City, 1.5 miles south of, T. 85 N., R. 24 W., SW. cor.		
sec. 13, NE. cor. crossroads, copper nail in top of east end, south side of plank drain under road north, marked		
(1999.9)	998.89	Bull. 569
Story City, SW. edge of, T. 85 N., R. 24 W., NW. cor. sec.		
13, SE. cor. crossroads; copper nail in base of telephone	1 011 00	D 11 500
pole, marked "1012.7"	1,011.69	Bull. 569
Story City, street crossing at east edge of, near center of sec. 12, T. 85 N., R. 24 W., at road leading north on		
half-section line, NE. cor. street intersection; chiseled		
square in top of concrete crosswalk at gutter crossing,		
marked ''1001.4''	1,000.47	Bull. 569
Story City, NE. part of, near center of sec. 12, T. 85 N.,		
R. 24 W., 1 block north of Main St., at SW. cor. high- school building; iron post stamped "1000"	998.864	Bull. 569
Story City, T. 85 N., R. 24 W., SW. cor. sec. 1, road cross-	000.001	Dan ou
ing C&NW Ry, NE. cor. intersection; top of bolthead		
ing C&NW Ry, NE. cor. intersection; top of bolthead at SE. cor. bridge No. 2205'', marked ''1019.3''	1,018.35	Bull. 569
Story City, T. 85 N., R. 24 W., east center of sec. 2, SW.		
cor. crossing; top of bolthead at north end of guardrail of railroad bridge 2205, marked "1024.9"	1,024.01	Bull. 569
Stout	1025	C&NW
Stowes Ranch station	874.55	DM&CI
Strahan	1128	WRR
Stratford	1113,G1116	C&NW
Stratford, 1.5 miles south by 2 miles west of, T. 86 N., R. 27 W., north center of sec. 23, inside of fence corner,		
SE. cor. crossroads; iron post stamped "1111"	1,110.058	Bull. 569
Stratford, T. 86 N., R. 27 W., near north center of NW. 1/4	,	
sec. 22, SW. cor. road forks at T road south; copper nail		70.17 500
in corner fence post, marked "1106.9"	1,105.93	Bull. 569
Stratford, T. 86 N., R. 27 W., near north center of sec. 21, east end of south side of steel highway bridge over Des		
Moines river: painted bolthead in top of southeast		
circular pier, marked "920.5"	919.55	Bull. 569
Stratford, 2.5 miles east by 3 miles south of, T. 86 N., R.		
26 W., NW. cor. sec. 34, SE. cor. crossroads, at fence corner; iron post stamped "1084"	1,082.577	Bull. 569
Stratford, T. 86 N., R. 26 W., SE. cor. sec. 27, NW. cor.	1,002.011	Dun. 509
crossroads: painted square on top of west end of tile		
drain under road north, marked "1045.4"	1,044.45	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Stratford, 1.5 miles east by 3 miles south of, T. 86 N., R. 26 W., cor. secs. 28, 29, 32 and 33, center of crossroads; chiseled square on top of stone, marked ''1076.0'' Stratford, 2.5 miles south by 1.5 miles east of, T. 86 N., R. 26 W., NE. cor. sec. 29, 60 feet south of road forks	1,075.00	Bull. 569
west; painted square on top of west end of tile drain under road to south, marked "1074.3"	1,073.26	Bull. 569
stamped "1121"	1,120.101	Bull. 569
Stratford, T. 86 N., R. 27 W., 0.1 mile west of south center of sec. 24, 280 feet east of house on north side of road; chiseled square on top of stone at north end of drain		-
under road, marked '1124.9'' Stratford, T. 86 N., R. 27 W., south center of sec. 23, at T road east, west side of road; copper nail in base of cor-	1,123.94	Bull. 569
ner fence post, marked "1128.1"	1,127.10	Bull. 569
Strawberry Point, T. 91 N., R. 6 W., quarter corner north	1213	CM&StP
side sec. 21; iron post stamped "1221 DBQ" Strawberry Point, in front of CM&StP Ry station; top of	1,222.344	Bull. 569
rail	1,217.2	Bull. 569
school yard; iron post stamped "114 DBQ"Struble	1,114.811	Bull. 569 GN
Stuart	1205,G1207	CRI&P
Stuart	G1216	Weather Bur.
Stuart, in NW. cor. station grass plat, 300 feet west of station, 60 feet north of track, 1 foot east of sidewalk;		
iron post	1,210.150	Bull. 569
Stuart, in front of CRI&P Ry station; top of rail	1,208.0	Bull. 569
Stuart, in stone water table of high school, about 6 feet	1 000 045	D11 500
east of entrance; aluminum tablet	1.206.045 770.G774	Bull. 569 CM&StP
Sugar Creek—Base rail bridge 71 (1-155 ft. T.L.T) north		01440001
end	511.2	CRI&P
Sugar Creek, top of monument M.P. 5		CRI&P
Sugar Creek, top of monument M.P. 6		CRI&P
Sugar Creek, top of monument M.P. 7	512.72	CRI&P CRI&P
Sugar Creek, top of monument M.P. 9	$513.84 \\ 929$	M&StL
SullySulphur Springs	1211 G1211	IC
Summerset		CRI&P
Summerset, Middle river near	775	IaGS
Summerset Junction	786.G791	CRI&P
Summit, Fremont Co.	1048	WRR
Summit, Fremont Co. Summit, Guthrie Co.	1148	CM&StP
Summit, Muscatine Co.	713,G718	CRI&P
Chambris Character Co	1056	IaGS
Summit, Story Co. Summit, Gary Moraine near	1075	IaGS
		CB&Q
Sumner1	063.6,G1063	CGW
Sunbury		CRI&P
Sunnyside		CRI&P CRI&P
Sutherland		C&NW
Sutherland, crossing IC	1473	C&NW
Swaledale		CGW
Swan, 100 feet south of, 55 feet west of track, 5 feet		0
south of sidewalk in corner of grass plots iron post		
stamped "772 Adj"	771.050	Bull.569

	ELEVATION	
STATION	FEET	AUTHORITY
Swan, in front of CB&Q RR station; top of rail	763.3	Bull.569
Swan	758.9, <del>G</del> 762	CB&Q
Swan, South river, RR bridge west of	761.88	CB&Q
Swan, South river, level of, at RR bridge	735	IaGS
Swanwood		FtDDM&S
Swanwood		CRI&P
Swanwood Junction Swea City		CRI&P CRI&P
Sweetland		CD&M
Sweetland, Muscatine Co., T. 77 N., R. 1 W., near center	141.01	ODdin
of south line NW. ¼ sec. 2, on telegraph road, south end		
of east steel floor beam of bridge over Pine creek; paint-		
ed square, marked "637.65"	637.77	Bull.569
Sweetland, T. 77 N., R. 1 W., about quarter corner be-	•	
tween secs. 2 and 3; T road south, marked "665.6"	666	Bull.569
Sweetland, T. 77 N., R. 1 W., near NW. cor. SW. 1/4 sec.		
3, on south side of road, 30 feet west of telegraph pole		
485, 10 feet east of north-south fence line, in base of	F40 90	TD11 F60
brace post; copper nail marked "748.26"	748.39	Bull.569
SW. cor. crossroads, 5 feet west of fence corner, 1 foot		
north of fence; iron post stamped "752"	752.651	Bull.569
Sweetland, T. 77 N., R 1. W., SW. cor. SE. 1/4 sec. 9,	.02.001	2411000
NE. cor. crossroads, on north concrete head wall of		
drain; chiseled square marked "741.84"	742.00	Bull.569
Sweetland, T. 77 N., R. 1 W., NE. cor. NW. 1/4 sec. 21, SW.		
cor. crossroads, west end of cast-iron drainpipe: painted		
square, marked "723.31"	723.48	Bull.569
Sweetland, T. 77 N., R. 1 W., about center of SW. 1/4 sec.	,	
21, south tree of row of four maple trees on north side		
of walk leading to Mr. Sabbath's residence; in root of tree; copper nail marked "731.63"	731.81	Bull.569
Swisher, top of rail on south line sec. 32, Tp. 82, R. 7, at	731.81	Pun.909
SW. cor. sec. 32	843.00	CR&IC
Swisher, bench mark, notch cut in top of water table on	010.00	Olwaro
SW. cor. of substation	799.13	CR&IC
Swisher, top of rail at same location as above	797.80	CR&IC
Swisher, top of rail on south line sec. 8, Tp. 81, R. 7, 1750		
feet east of SW. cor. sec. 8	765.90	CR&IC
Tabor, top of rail	1249.72	T&N
Tabor	1240	IaGS
Taintor		M&StL
Talmage10		·CGW C&NW
Tama, crossing CM&StP	819	C&NW
Tama	822 G819	CM&StP
Tama, crossing C&NW main line		CM&StP
Tara, union station with M&StL		IC
Tara, crossing M&StL	1150,G1153	IC
Tara	1147	M&StL
Tara, 2.5 miles north of, T. 89 N., R. 29 W., near center of		
sec. 8. at road crossing, 100 ft. SE. of crossing, 60 ft. S.		
of bridge, on W. side of small creek; copper nail and	1 000 00	TTGGG
washer, in root of 8-inch oak tree, marked "1,088.9" Tara, 2.5 miles north of, east rail at crossing (line fol-	1,088.82	USGS
lows highways E. 1.89 miles from this point)	1 002 15	USGS
Tara, T. 89 N., R. 29 W., center of sec. 9, 25 ft. S. of road	1,093.15	abau
center, on fence line, in base of telephone pole, marked		
"1,114.1"; spike	1,113.97	USGS
Tara, T. 89 N., R. 29 W., center of sec. 10, T. road N., 50	-,	2.0 ~
ft. NE. of road fork; iron post stamped "IOWA 1919		
1,109''	1,108.456	$\mathbf{vsgs}$

	ELEVATION	
Station	FEET	AUTHORITY
Tara, T. 89 N., R. 29 W., center of sec. 27, at T road south, 40 ft. NW. of road forks, in base of gate post, marked		
'1,127.8''; spike	1,127.61	USGS
27, 250 feet north of T road east, 25 feet NW. of rail-		
way crossing, in base of railway sign post, marked		
1,119.5''; spike	1,119.46	USGS
Taylor	892.95	DM&CI
Teeds Grove Templeton	683,G685 1431	CM&StP CM&StP
Tennant		CM&SLE
Terril		M&StL
Thayer		$^{\mathrm{CB}\&\mathrm{Q}}$
ThompsonThor	1272,G1259	CRI&P
Thor, T. 91 N., R. 27 W., at cor. secs. 25, 26, 35 and 36, in	1150,61152	C&NW
top of concrete step to west entrance to Fairview school-		
house; chiseled square painted "1,133.3"	. 1,133.23	USGS
Thor, T. 91 N., R. 27 W., at cor. secs. 23, 24, 25 and 26, in		
south wingwall to west abutment of steel bridge over large ditch; chiseled square painted "1,122.1"	1,122.05	USGS
Thor, T. 91 N., R. 27 W., near cor. secs. 13, 14, 23 and 24,	1,122.00	avau
49.9 feet due south of the below iron post, in east end		
of concrete culvert	1,136.58	USGS
Thor, 3 miles east of, T. 91 N., R. 27 W., at cor. secs. 13,		
14, 23 and 24, in SW. cor. schoolyard at crossroads; iron post stamped "Iowa 1921".	1,134.223	USGS
Thor, T. 91 N., R. 27 W., center sec. 14, 60 feet east by 20	1,104.220	Chub
feet north of junction of T road north, in root of soft		
maple tree (14 inches in diameter); copper nail and	7 7 47 00	31000
washer marked "U.S.G.S.B.M." T.B.M. 1,141.4	1,141.36	USGS
between secs. 11 and 14, on east side of road, in NW. cor.		
willow grove, in root of willow tree (12 inches in diam-		
eter); copper nail and washer marked "U.S.G.S.B.M."		
T.B.M. 1,134.2	1,134.20	USGS
Thor, T. 91 N., R. 27 W., quarter cor. between secs. 2 and 11, 250 feet east of center of crossroads, in south wing-		
wall of west abutment of steel bridge over large ditch;		
chiseled square, T.B.M. 1,130.9	1,130.90	USGS
Thor, T. 92 N., R. 27 W., at south quarter cor. sec. 35, 570		
feet east of junction of T road south, near SW. cor. of Mr. Henry Harvey's yard, in root of willow tree (14		
inches in diameter); nail in washer marked "U.S.G.S.		
B.M., '' T.B.M. 1,148.6	1,148.62	USGS
Thornburg	869,G878	CRI&P
Thornburg Junction11	859	CRI&P CGW
Thorne 10	46.0.G1046	CGW
Thorpe, T. 90 N., R. 5 W., SW. cor. sec. 21; iron post		04.77
stamped '1016 DBQ''	1,017.270	Bull.569
Thrall Ticonic	1141,G1144	C&NW
Tiffin		IC CRI&P
Tileville, abandoned	G1072	CRI&P
Tilton	823	C&NW
Tingley	,	CB&Q
Tipperary, 0.5 mile north by 0.5 mile east of, T. 73 N., R.	808	C&NW
20 W., sec. 22, 0.25 mile north by 0.25 mile east of cen-		
ter of, in SW. angle T road south, 4 feet west of corner		

	ELEVATION	ı
STATION	FEET	AUTHORITY
post; iron post stamped "Iowa 986, 1913"; Prim.	000.000	D 11 500
Trav. Sta. 13Tipton	986.636 806.G807	Bull.569 CRI&P
Titonka	1162	CRI&P
Titus		CM&StP
Toddville	771,G780	CRI&P
Toeterville		IC
Togo		CB&Q
Toledo		C&NW Weather Bur.
Toronto		CM&StP
Tower 307		CB&Q
Tracy, Des Moines line	15.5,G717	, CB&Q
Tracy, Oskaloosa line	710	CB&Q
Tracy, crossing Wabash	710	CB&Q
Tracy, RR bridge over Walnut creek south of	$702.34 \\ 680$	CB&Ų IaGS
Tracy	729	WRR
Tracy, hexagonal bolthead on downstream side of east or		.,
left bank pier of Bellefontaine highway bridge over Des		
Moines river (U.S.C.E.b.m. 69)	694.48	Bull 569
Tracy, below, 2 feet from point of north end of east pier of CB&Q RR bridge (U.S.C.E.b.m. 70)	689.42	D.11 560
Tracy, T. 75 N., R. 18 W., 0.25 mile north of SW. cor.	009.44	Bull 569
sec. 30, on north side of road near SW. cor. Vigilance		
School grounds; iron post stamped "886 Iowa"	884.979	Bull 569
Tracy, T. 75 N., R. 18 W., center of sec. 29, T corner, on		
highest point of rock at intersection; painted square	836.60	Bull 569
Tracy, T. 75 N., R. 18 W., 0.25 mile east of quarter corner	047 650	D11 #60
on west side of sec. 27; iron post stamped ''849 Iowa'' Tracy, T. 75 N., R. 18 W., 0.5 mile north of SE. cor. sec.	847.652	Bull 569
26, T corner, at side of road; stone	757.70	Bull 569
Tracy, 2 blocks south of CB&Q RR station, north side of		000
street, 3 feet south of fence, 60 feet east of CB&Q RR		
track; iron post stamped "730 Iowa" (Junction point)	728.302	Bull 569
Tracy, 0.5 mile east of, railroad crossing; north rail	694.94	Bull 569
Tracy, 3.5 miles east of, east of wagon road, railroad crossing; top of south rail	704.62	Bull 569
Tracy, Tps. 74 and 75 N., R. 17 W., cor. secs. 5, 6, 31 and	101.04	Dun 000
32, in SW. angle of roads at T road south, 25 feet west		
by 1 foot north of fence corner, in top of concrete post;		
bronze tablet stamped "E.B. No. 9 1924 Iowa", painted	07.0.704	TTGGG
"U.S.B.M. 810.8". Tracy, reference mark, 30 feet east by 1 foot north of	810.724	USGS
tablet, in top center on east end of concrete retaining		
wall to metal culvert under road; chiseled square	809.06	USGS
Tracy, T. 75 N., R. 17 W., near center of sec. 31, 3 feet		
south of SW. cor. steel bridge over Cedar creek, in top		
of stone retaining wall; chiseled square, painted "U.S.	<b>COC</b> OO	TTOO'O
B.M. 697.0'' Tracy, about 1 mile east of, at road crossing CB&Q RR;	696.93	USGS
top of north rail	695.0	USGS
Tracy, about 1 mile east of, in NW. angle of roads, at T		
road west, 5 feet north by 1 foot east of corner fence		
post, driven in ground; top of 0.75-inch gas pipe, paint-	600 OF	TTOOG
ed "U.S.B.M. 691.0"Tracy, on downstream side of east (left bank) pier of	690.97	USGS
Bellefontaine highway bridge over Des Moines river, 0.2		
feet above surface of pier; top of hexagonal bolthead,		
marked with chiseled cross (U.S.C.E.B.M. 69=696.16,		
see Bull. 569, p. 118)	<b>694.4</b> 82	USGS
Tracy, reference mark is 157 feet S. 70° E. of B.M., on		

	ELEVATION	
STATION	FEET	AUTHORITY
east bank of river, in root on NE. side of 3-foot elm tree;	000 50	******
copper nail and washer	686.73	USGS
feet west and 20 feet north of angle in road, in bench		
on south side of 1-foot maple tree; copper nail and		
washer	685.35	USGS
Traer		CRI&P
Traer, crossing C&NW	915	CRI&P
Traer	891	C&NW
Traer, crossing CRI&P	891	C&NW
Trace, crossing CRI&P	998.G1001	CM&StP
Trask, crossing under ISU	937,G941	CM&StP
Trask, ISU track		CM&StP
Trask		ISU
Tripoli	1015.5	$\mathbf{C}\mathbf{G}\mathbf{W}$
Troy		$^{\mathrm{CB\&Q}}$
Truax		C&NW
Truesdale		${ m M\&StL}$
Truro		$_{ m CB\&Q}$
Tuckers	972.71	DM&CI
Turin	1048	C&NW
Turkey River	622,G623	CM&StP
Turkey River Junction, opposite CM&StP Ry station; base	001.00	TD 11 500
of rail (U.S.C.E.b.m.)	621.66	Bull. 569
Turkey River Junction, on Island 189, 400 meters above its		
foot, 75 meters from right bank of Cassville slough, 100		
meters below mouth of small slough which empties into		
Cassville slough, on small clearing on ridge; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 189/2):		
Copper holt	605.01	Bull. 569
Copper bolt	608.97	Buil. 505
Turkey River Junction, opposite a point 0.5 mile above	000.51	
foot of Island 189, on right bank of Guttenberg channel,		
50 meters below head of small slough and 10 meters back		
from bank of river; copper bolt in tile surmounted by		
iron pipe (U.S.C.E.b.m. 189/3):		
Copper boltCap on pipe	603.73	Bull. 569
Cap on pipe	607.68	
Turkey River station, 0.5 mile above, on right of way of		
CM&StP Ry, 0.5 meter from north fence, 8.5 rail lengths		
above a sign "Turkey River Stop Junction"; copper		· · ·
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
189/4):		
Copper bolt	607.00	Bull. 569
Cap on pipe	610.97	
Turkey River Junction, on Island 189, on high ridge 80		
meters from left bank of Guttenberg Channel, 25 meters		
above patch of trees and willows along river bank; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
190/3):	600 27	D11 500
Copper bolt	$608.37 \\ 612.31$	Bull. 569
Cap on pipe	012.31	
above milepost 90, 50 feet above very large and prom-		
inent bowlder on west side of track, 328 feet above farm-		
house at point of woods on river side of track, 15 feet		
west of center, on ledge of rock marked "HDS" high-		
west of center, on ledge of rock, marked "UDS"; highest point in square (U.S.C.E.t.b.m. 258)	623.119	Bull. 569
Turkey River Junction, 1.148 feet above station, at upper		
end of CM&StP Ry bridge 212, over Turkey river, on		
west end of pier, carrying also t.b.m. 257, 14 inches east		

Station	ELEVATION FEET	AUTHORITY
from extreme point of rounding capstone; copper bolt		
marked "U.S.ÔP.B.M." (U.S.Č.E.p.b.m. 252)	616.498	Bull. 569
stone pier of bridge 212, on west side of track, 9 feet		
from west end of pier and 7 inches back from its north face; highest point in square, marked "UDS" (U.S.C.		•
E.t.b.m. 257)	616.485	Bull. <b>569</b>
Turkey River Junction, 1,552 feet above bridge 212, on line of CM&StP Ry, 118 feet above cattle guard, 249		
feet below sign "Turkey River Function, stop," 13 feet west of center of track, 23 feet below t.b.m. 257, 2 feet		
above grade of ties, in ledge of rock, marked "U.S.		
OP.B.M.''; copper bolt (U.S.C.E.p.b.m. 251)	626.403	Bull. 569
above CM&StP Ry bridge 212 over Turkey river, 8 feet		
west from center of track, 2 feet above grade of track, on natural ledge of rock, marked "U S" on its face;		
highest point in square (U.S.C.E.t.b.m. 256)	624.681	Bull. 569
Turkey River Junction, on north side of river, 1.8 miles above point of bluff at CM&StP Ry, 331 feet below mile-		
post 87 (from LaCrosse), 12 feet west of center of track,		
on ledge of rock, marked "US"; highest point in square (U.S.C.E.t.b.m. 254)	630.694	Bull. 569
Turkey River Junction Turner	623,G622	CM&StP CRI&P
Turners Park, top of rail on south line sec. 8, Tp. 82 N.,	,	
R. 7, 1350 feet west of SE. cor. sec. 8	777.90 754.G756	CR&IC CRI&P
Tuskego	1172.G1175	CB&Q
Twin Springs		$\begin{array}{c} \text{CGW} \\ \text{CRI&P} \end{array}$
Tyrone		CB&Q
Tyrone, T. 72 N., Rs. 18 and 19 W., north sixteenth corner between secs. 25 and 30, 165 feet N. and 1 foot W. of		
old position at NE. cor. of intersection of T road east; iron post marked "Prim. Trav. Sta. No. 8 Iowa 1914",		
stamped "E.b. No. 1 1924 Iowa." As reset 1926 by		
C. V. Bair	974.050	USGS
side of road, 8 inches east of corner fence post; 1-inch		
gas pipe projecting 3 inches above ground, painted	983.98	USGS
Tyrone, T. 72 N., R. 18 W., about 0.2 mile SW. of NE.		
cor. sec. 30, at right angle bend in SE. angle of road, 5 feet east of corner fence post; gas pipe projecting 3		
feet east of corner fence post; gas pipe projecting 3 inches above ground, painted "U.S. 983.7"	983.65	USGS
north side of road, in south root of 48-inch cottonwood		
tree; copper nail and washer, painted "U.S. 980.2" Tyrone, concrete bridge near above location, north rail of,	980.17	USGS
painted circle ''936.2''	936.2	USGS
Tyrone, T. 72 N., R. 18 W., about 0.38 mile east of NW. cor. sec. 28, north side of road, east side of driveway		
to house, in south base of 28-inch cottonwood tree; cop-		770.00
per nail and washer, tree is painted "976.9"	976.84 985,G996	USGS CRI&P
Udell	997	$\mathbf{wrr}$
Udell, crossing over CRI&P	$1007 \\ 933.25$	WRR DM&CI
Ulmer	1268,G1252	IC CRI&P
Underwood		CM&StP

STATION	ELEVATION FEET	AUTHORITY
	PEEL	AUIHOMIII
Underwood, 50 feet west of track, 15 feet south of first road crossing track south of station, 50 feet SW. of		
telegraph pole 483-21; iron post	1,073.973	Bull. 569
Underwood, in first concrete culvert south of station, 20	2,010.010	241, 000
feet east of CRI&P Ry track, near telegraph pole 483-24		
"G": aluminum tablet	1,072.536	Bull. 569
Underwood; in front of CRI&P station; top of rail	1,077.4	Bull. 569
Union	940,G933	M&StL
Union, 3 miles south of, river level at Hardin-Marshall Co.		
line	910	IaGS
Unionville	925,0936	CRI&P
Urbana, M.P. 36, subgradeUte	901.20	$rac{ m WCF\&N}{ m CM\&StP}$
Ute, crossing C&NW	1178	CM&StP
Ute	1166	C&NW
Vail		C&NW
Valdora		CM&StP
Valeria8	59.3,G855	CGW
Valeria, T. 80 N., R. 21 W., at quarter corner between secs.		
14 and 23, 20 feet east of T road west, on concrete post;		
bronze tablet stamped "Prim. Trav. Sta. No. 19-L.S		*****
1924-Ia.'', marked ''862.3''	862.454	USGS
Valeria, reference mark is 158 feet S. 20° W. of L.S. No.		
19, top of west heading of concrete culvert; chiseled square	860.52	USGS
Valeria, T. 80 N., R. 21 W., near corner of secs. 15, 16, 21	000.02	CDGD
and 22, 370 feet east of crossroads, top of east end of		
north heading of concrete bridge: chiseled square		
north heading of concrete bridge; chiseled square marked "887.7"	887.89	USGS
Valeria, T. 80 N., R. 21 W., near corner of secs. 16, 17, 20 and 21, 55 feet south and 25 feet east of T road south, in		
and 21, 55 feet south and 25 feet east of T road south, in		
root on north side of 2-foot maple tree; copper nail and		
washer, marked ''951.6''	951.76	USGS
Valeria, T. 80 N., R. 21 W., at cor. secs. 17, 18, 19 and 20,		
730 feet west and 115 feet north of station at Valeria, 25 feet south and 25 feet east of T road north, 1.5 feet		
south of wire fence on concrete next bronze toblet		
south of wire fence, on concrete post; bronze tablet stamped "W.R.B. No. 1" marked "877.0"	877.147	USGS
Valeria, reference mark is 635 feet east of "W.R.B. No.	0111121	0,000
1", top of east end of south railing of concrete culvert;		•
chiseled square	857.98	USGS
Valeria, T. 80 N., Rs. 21 and 22 W., at cor. secs. 13, 18,		
19 and 24, in NE. angle of crossroads, top of east end of		
iron tube; painted square, marked "803.4"	803.53	USGS
Valley Junction, CRI&P station	818	M&StL
Valley Junction	811,0814	CRI&P
feet east of station, in fence corner; iron post	811.271	Bull, 569
Valley Junction, in front of CRI&P station; top of rail	812.9	Bull. 569
Valley Junction 1 mile east of, 70 feet south of track, 100	012.0	Dun. occ
feet west of right-of-way gate: iron post	805.924	Bull. 569
Valley Junction, in foundation of public school, 1 foot		
west of entrance door; aluminum tablet stamped "821		
Adj 1903''		Bull. 569
Vancleve		M&StL
Van Horne	946,6943	CM&StP
Van Meter, 60 feet north of track opposite west end of station, in grass plat, opposite a point about halfway		
between station and water tank, 20 feet north of road,		
near Main Street crossing; iron post	872.406	Bull. 569
Van Meter, in front of CRI&P Ry station; top of rail	873.5	Bull. 569
,,,,,		

Charles and the Charles and th	ELEVATION	
STATION	FEET .	AUTHORITY
Van Meter, 1.25 miles east of, in SW. abutment of bridge		
358; aluminum tablet	861.901	Bull. 569
Van Meter, T. 78 N., R. 27 W., NW. cor. sec. 10, 20 feet		
west of, 4 feet north of corner fence post by roadside;	001 055	70.11 #40
iron post stamped "983"	981.357	Bull. 569
Van Meter		CRI&P
Van Wert, Des Moines line	1166	CB&Q
Van Wert, Shenandoah line	1158,61155	CB&Q
Van Wert, crossing Des Moines line	G1157	CB&Q
Varina Ventura	1208,G1201	CM&StP
Veo	750	CM&StP
Verdi	750 665	CB&Q CRI&P
Vernon		CRI&P
Victor		CRI&P
Victoria (milk platform)	1117.2	CGW
Viele	549 G541	CB&Q
Viele, 1 mile south of, in top of west end of south abut-	042,0041	ODWĄ
ment of CR&O RR bridge over Panther creek: conner		
ment of CB&Q RR bridge over Panther creek; copper bolt marked "U.S.P.B.M." (U.S.C.E.p.b.m. 4)	543.293	Bull, 569
Viele, 0.5 mile below, in NE. cornerstone of middle pier of	043,200	Dun. 505
CR&O RR bridge over Sugar creek: conner holt marked		
CB&Q RR bridge over Sugar creek; copper bolt marked "U.S.P.B.M." (U.S.C.E.p.b.m 5)	537.361	Bull. 569
Viele, 0.5 mile north of, in top of stone abutment of CB&Q	100.1001	Dun. 000
RR bridge over Little Devil creek; copper bolt marked		
"U.S.P.B.M." (U.S.C.E.p.b.m. 6)	542.318	Bull. 569
Village Creek Allamakoo Co. T. 03 N. R. 3 W. of anar-		Dan. 000
ter corner east side sec 31 near NW cor fence nost of		
cemetery: iron post stamped "1148 DBQ"	1 149 940	Bull. 569
Village Creek, near NW, cor, schoolhouse: iron nost	1,110.010	Dun 600
ter corner east side sec. 31, near NW. cor. fence post of cemetery; iron post stamped "1148 DBQ"	647,072	Bull. 569
Villisca	050.G1050	CB&Q
Villisca	G1050	Weather Bur.
Vincennes, SW. 1/4 sec. 22, T. 66 N., R. 6 W., in NW. cor.		
foundation of house of R. Sargent; aluminum tablet		
stamped "555A": as accepted in 1926 by HSCE.		
from Keokuk	555.597	Bull. 569
Vincent11	34.4,G1139	∪GW
Vincent, 1.5 miles north by 1.5 miles west of, T. 90 N., R.	,	•
27 W., cor. secs. 8, 9, 16 and 17, 35 feet NE. of center		
27 W., cor. secs. 8, 9, 16 and 17, 35 feet NE. of center of crossroads; iron post stamped "1,128 IOWA 1919".	1,128.065	USGS
Vincent, T. 90 N., R. 27 W., corner of secs. 9, 10, 15 and	•	
Vincent, T. 90 N., R. 27 W., corner of secs. 9, 10, 15 and 16, at T road S., 35 ft. SE. of road fork, in base of cor-		
ner fence post, marked "1,127.8"; spike	1,127.60	USGS
Vincent, 1.5 miles north of, T. 90 N. R. 27 W., quarter corner, S. side of sec. 10, 75 ft. NE. of crossroads; in		
corner, S. side of sec. 10, 75 ft. NE. of crossroads; in		
root of large willow tree, marked "1,131.5"; copper		
nail and washer	1,131.30	USGS
nail and washer		
sec. 11, 30 feet NW, of road fork in base of corner		
fence post, marked "1.142.1"; spike	1,141.89	USGS
Vincent, T. 90 N., R. 27 W., at quarter cor. secs. 2 and 11,		
60 feet south by 30 feet east of center of T road junc-		
tion south, in root of soft maple tree (10 inches in diam-		
eter); copper nail and washer marked "U.S.G.S.B.M."	1,138.53	USGS
Vincent, T. 90 N., R. 27 W., near SW. cor. sec. 2, 201 feet due west of post (Prim. Trav. Sta. No. 13), in north fence line of east and west road, in root of cottonwood		
que west of post (Prim. Trav. Sta. No. 13), in north		
tence line of east and west road, in root of cottonwood		
tree (24 inches in diameter); copper half and washer	1 100 45	TTOCO
marked "U.S.G.S.B.M." Vincent, T. 90 N., R. 27 W., near cor. secs. 1, 2, 11 and 12,	1,133.45	USGS
vincent, T. 90 N., R. 27 W., near cor. secs. 1, 2, 11 and 12,		

Sim a moor	ELEVATION	
STATION	FEET	AUTHORITY
at school yard, NE. cor. of road intersection; iron post stamped "Prim. Trav. Sta. No. 13 1919"	1 1 21 640	TTGGG
Vincent, Tps. 90 and 91 N., R. 27 W., at cor. secs. 1, 2, 35	1,131.649	USGS
and 36, in SE. cor. of sec. 35, NW. cor. of crossroads,		
in concrete foundation supporting cor. of fence post:		
chiseled square '1,124.2''	1,124.23	USGS
Vining		CM&StP
Vining	G810	Weather Bur.
Vinton		CRI&P
Volga City		CM&StP CM&StP
Volga City, at CM&StP crossing; top of rail	789.9	Bull. 569
Volga City, in SE, cor, school vard: iron post stamped	795.143	Bull. 569
Volga City, T. 93 N., R. 6 W., NE. ¼ sec. 21, SE. cor.	1001110	Dun. 000
school yard; iron post stamped "1147 DBQ"	1,148.733	Bull. 569
Volney, Allamakee Co., T. 96 N., R. 5 W., 700 feet east of	•	
quarter corner west side sec. 23, north side of Hickory		
Creek, 80 feet SW. of NW. cor. bridge 16, south side of road; iron post stamped "787 DBQ"	787.791	D.,11 560
Volney, T. 96 N., R. 4 W., south of quarter corner west	101.191	Bull. 569
sec. 8, on summit of hill north of Yellow river; iron post		
stamped ''1099 DBQ''	1,100.680	Bull. 569
Voorhies	997	C&NW
Wabash Junction	881	CB&Q
Wadena, in front of CM&StP Ry station; top of rail	873.9	Bull. 569
Wadena, in front of CM&StP Ry station; iron post stamped "874 DBQ"	874.485	Bull. 569
Wadena	875	CM&StP
Wadleigh, M.P. 388	1170	IC
Wagner		FtDDM&S
Walcott	727,G730	CRI&P
Walford		CM&StP CRI&P
Walker		CRI&P
Wall Lake		C&NW
Wall Lake		IC
Walnut, 300 feet south of track opposite point on track 300	,	
feet west of station, 5 feet SW. of second telegraph pole		
south of track; iron post	1,285.285	Bull.569
Walnut, in front of CRI&P station; top of rail	1,294.8	Bull.569
Walnut, 2.5 miles east of, in NW. abutment of bridge 449; aluminum tablet	1,286.181	Bull.569
Walnut		CRI&P
Waneta, changed to Max		CM&StP
Wapello	583,G588	CRI&P
Wapello, 0.25 mile above Iowa City landing, 20 meters		
from west edge of swamp, 813 meters back of following-		
described bench mark, 9.3 meters 16° 30' to 15-inch ash tree. 6.9 meters 79° 30' to 15-inch willow, 6.7 meters		
238° 30′ to 12-inch birch tree; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 134/1):		
Copper bolt	529.49	Bull. 569
Cap on pipe	533.51	
Wapello, 0.25 mile above Iowa City landing, on ridge be-		
tween wide sand bar and narrow slough running parallel		
to river, 10 meters from natural river bank. 14 meters 319° to 18-inch maple tree. 4.6 meters 63° 30′ to 24-inch		
cottonwood, 11.2 meters 269° to 12-inch willow tree; cop-		
per bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
134/2):		
Copper bolt	533.22	Bull. 569

	ELEVATION	
STATION	FEET	AUTHORITY
Cap on pipe	537,22	
Wapello, 0.25 mile above Iowa City landing, 10 meters		
from bank just north of dry slough, 17.5 meters 43° to		
12-inch black oak, 8.7 meters 297° to 15-inch black oak;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 134/3):	520 46	D11 560
Copper bolt	530.46 534.46	Bull. 569
Wapello, 0.25 mile above Iowa City landing, on top of old	004.40	
embankment, apparently a railroad dump, 970 meters		
back of bench mark 134/3, on line with bench marks		
back of bench mark 134/3, on line with bench marks 134/2 and 134/3, 9.3 meters 283° to 15-inch cottonwood		
tree, 9 meters 38° 30′ to 15-inch cottonwood, 2.6 meters		
176° to 20-inch cottonwood tree; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 134/4):		T 11 F40
Copper bolt	540.05	Bull. 569
Cap on pipe		CRI&P
Warren		CB&Q
Washburn		CRI&P
Washington	755.G746	CB&Q
Washington	754,G765	CRI&P
Washington, crossing CM&StP	754	CRI&P
Washington	756	CM&StP
Washington, crossing CRI&P	753	CM&StP
Washington	G769	Weather Bur.
Washington Mills	799, <del>G</del> 797	CM&StP
road crossing north line of CM&StP Ry, fence corner		
road crossing north line of Chaster by, fence corner		
near William Cannon's gate, 20 feet SE. of cattle guard; iron post stamped "868"	858.444	Bull. 569
Washta		IC
Wassonville mill	706	<b>T</b> 00
707 ( 3 77 ) 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	${f IaGS}$
Waterloo, East, track junction at Newell St., subgrade	873.49	WCF&N
Waterloo, crossing under CGW, subgrade	873.49 847.2	WCF&N WCF&N
Waterloo, crossing under CGW, subgrade	873.49 847.2 868.37	WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade	873.49 847.2 868.37 843.94	WCF&N WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade Waterloo, crossing CGW, top of rail Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track.	873.49 847.2 868.37 843.94 844.89	WCF&N WCF&N WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail	873.49 847.2 868.37 843.94 844.89 842.82	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade	873.49 847.2 868.37 843.94 844.89 842.82 849.G852	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade Waterloo, crossing CGW, top of rail Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 847,G852	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N
Waterloo, crossing under CGW, subgrade Waterloo, crossing CGW, top of rail Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N	873.49 847.2 868.37 843.94 844.89 842.82 849.G852	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 847,G852 852	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 G852 847,853	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,B53 846.1	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,6852 847 853 846.1 45.5,G845	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, bop of rail Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, East Waterloo, East Waterloo, Cedar river bridge	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 847,G852 852 G852 847 853 	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, bop of rail Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, East Waterloo, East Waterloo, Cedar river bridge	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 847,G852 852 G852 847 853 	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail Waterloo, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, Caar river bridge Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 857 853 846.1 45.5,G845 G848 48.4,G849	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, West, crossing CRI&P	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,B853 	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track. Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, East Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, West, crossing CRI&P	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,B853 	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track. Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, East Belt Junction Waterloo, West Waterloo, Cedar river bridge Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, West, crossing CRI&P Waterloo Waterloo Waterloo Waterloo Waterloo West, crossing CRI&P	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,G852 847,G852 6852 847 853 	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC GW CGW CGW CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing CRI&P Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, Cedar river bridge Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,G852 846.1 45.5,G845 G848 48.4,G849 G871 46.6,G845 845,G841 G856 833,G832	WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC GW CGW CGW CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, Cedar river bridge Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing UT track Waterloo W	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,G852 846.1 45.5,G845 G848 48.4,G849 G871 46.6,G845 845,G841 G856 833,G832	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC GW CGW CGW CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track. Waterloo, 4th and Mulberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WGF&N Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo Wa	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,G852 846.1 45.5,G845 G848 48.4,G849 G871 46.6,G845 845,G841 G856 833,G832 814,G812	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC GW CGW CGW CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track. Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing CRI&P Waterloo, crossing CRI&P Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo Wat	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,G852 846.1 45.5,G845 G848 48.4,G849 G871 46.6,G845 845,G841 G856 833,G832 814,G812	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC IC GW CGW CGW CGW CGW CGW CGW CGW CGW CGW
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, East, crossing IC track Waterloo Wa	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847,853 846.1 45.5,G845 G848 48.4,G849 G871 46.6,G845 845,G841 G856 833,G832 814,G812	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC CGW CGW CGW CGW CGW CGW CGW CGW CGW CG
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, East, crossing IC track Waterloo Wa	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 852 G852 847, 853 	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC CGW CGW CGW CGW CGW CGW CGW CGW CGW CG
Waterloo, crossing under CGW, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, subgrade Waterloo, crossing IC, top of rail IC track Waterloo, 4th and Muberry Sts., top of rail Waterloo Waterloo, crossing CGW Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, crossing WCF&N Waterloo, East Belt Junction Waterloo, West Belt Junction Waterloo, West Waterloo, East Waterloo, East Waterloo, East, crossing under IC, CGW track Waterloo, East, crossing IC track Waterloo, East, crossing IC track Waterloo Wa	873.49 847.2 868.37 843.94 844.89 842.82 849,G852 847,G852 852 G852 847 853 	WCF&N WCF&N WCF&N WCF&N WCF&N WCF&N IC IC IC IC IC CGW CGW CGW CGW CGW CGW CGW CGW CGW CG

	ELEVATION	
Station	FEET	AUTHORITY
Waukee	G1039	Weather Bur.
Waukee	t043,G1033	${ m M\&StL}$
Waukee, 35 feet SE. of NW. cor. sec. 33, T. 79 N., R. 26		
W., 4 feet south of corner fence post; iron post stamped	1 000 017	70 11 740
((1035))	1,033.817	Bull. 569
Waukee, Pleasant View schoolhouse, T. 79 N., R. 26 W., 35		
feet NE. of NW. cor. sec. 36, 8 feet east of corner fence	1 020 997	D.,11 560
post, in school yard; iron post stamped "1032"	1,050.221	Bull. 569 CM&StP
Waukon, T. 97 N., R. 5 W., quarter corner west side sec. 16,	1210,01210	OHENDEL
just off highway, NE. cor. crossroads; iron post stamped		
''1218 DBQ''	1,219.328	Bull, 569
"1218 DBQ", Waukon, (Iron Hill), T. 98 N., R. 5 W., 1,300 feet NE. of	_,	
center sec. 17. 15 feet SE, of NW, corner post of north		
fence line; iron post stamped "1320 DBQ"	1,321.049	Bull. 569
waukon Junction	630,G629	CM&StP
Waukon Junction, Island 163, planted on, on high ground		
in bunch of cottonwoods, 30 meters back from east shore,		
100 meters above a running slough opposite foot of Is-		
land 164, 25 meters north of small dry slough; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 200/3):		
Copper bolt	615.02	Bull, 569
Cap on pipe	618.98	Dun, 505
Waukon Junction, 1.25 miles above, at foot of bluffs, 0.5	020.00	
Waukon Junction, 1.25 miles above, at foot of bluffs, 0.5 mile above triangulation station "Painted Rocks," in		
corner of fences, 1 meter west of west right of way		
fence of CM&StP Ry, 15 meters north of road crossing,		
30 meters below bridge 456; copper bolt in tile sur-		
mounted by iron pipe (U.S.C.E.b.m. 200/4):		
Copper bolt	633.30	Bull. 569
Cap on pipe	637.27	COLUCATO
Waupeton, Island 204, about opposite foot of, on Island	024,0023	CM&StP
203, on lower end of island, 20 meters from river bank;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 185/2):		
Copper bolt	602.31	Bull. 569
Cap on pipe	606.25	
Waupeton, Hurricane Island, opposite head of first towhead		
below foot of, on south side of CM&StP Ry track, 6.5		
meters north of south right-of-way fence, on prominent		
high ridge running out from bluff, 6 meters from and		
4.5 meters higher than railroad track; copper bolt in tile		
surmounted by iron pipe (U.S.C.E.b.m. 185/3 equals∆ (in circle) Rumpel):		
Copper bolt	637.29	Bull. 569
Cap on pipe	641.25	Dan. oo
Waupeton, 260 meters below, 187 meters below railroad	012.20	
bridge 172, on north face of bluff at point where it begins		
to curve to south, 11 meters south from center of CM&		
StP Ry track, 0.6 meter south from right-of-way fence;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 186/3 equals p.b.m. 258-259):		70 11 #40
Copper bolt	615.84	Bull. 569
Cap on pipe	619.83	
SCEhm)	623 97	Bull. 569
Waupeton, 2.1 miles below, 1.2 miles below Cameron, on	020.01	Dun. 009
line of CM&StP Ry, 2,053 feet above milepost 100-61, 100		
feet below very large and conspicuous piece of ledge cov-		
ered with vines lying on bluff side of right of way, on		,

	7717 7777 1 777 0 777	•
STATION .	ELEVATION FEET	A TIMELODING
· · · - ·	FEEL	AUTHORITY
bowlder marked "UDS"; highest point in square (U.S.C.E.t.b.m. 273)	626.449	Bull. 569
Waupeton, 853 feet below, 612 feet below bridge 172, on	020.443	Dun. 505
north face of bluff, at point where it begins to curve to		
south, 36 feet south from center of CM&StP By track,		•
2 feet south from south right-of-way fence; copper bolt		
in tile surmounted by iron pipe (U.S.C.E.p.b.m. 258 and		
259):		
Copper bolt	615.842	. Bull. 569
Cap on pipe	619.831	
Waupeton, 1,171 feet above station, 420 feet below milepost 97-64, 262 feet above bridge 174, on bluff side of		
track, 10 feet from center, on natural ledge of rock,		
about level with grade, marked "U_S" on its face;		
highest point in square (U.S.C.E.t.b.m. 270)	626.302	Bull. 569
highest point in square (U.S.C.E.t.b.m. 270)		
377 feet above bridge 180K, just below prominent ledge		
of white rock on bluff side of track, 10 feet from center,		
also 146 meters below bridge 182, 2 feet above grade of track, on ledge of rock marked "U□S"; highest		
point in square (U.S.C.E.t.b.m. 269)	629.438	Bull, 569
Waupeton, 1.5 miles above, 1,739 feet above milepost 96-	040.100	Dun. 909
65, 122 feet above bridge 186K over Dry Hollow, on bluff		
side of track, 16.5 feet from center, just outside of right		
of way fence; copper bolt in tile surmounted by iron		
pipe (U.S.C.E.p.b.m. 256 and 257):		
Copper bolt	623.781	Bull. 569
Cap on pipe		COTT
Waverly	920.3	CGW
Waverly	935.5 041 G036	IC
Waverly, crossing CRI&P	943	ic
Waverly, crossing CGW	938.G936	ĨČ
Waverly	910	CRI&P
Waverly, crossing IC	925	CRI&P
Waverly, at Ellsworth St., top of rail	918.4	WCF&N
Waverly, city datum plane	812.86	
Waverly		Weather Bur.
Waverly Junction	901 G917	CRI&P CGW
Wayland		M&StL
Wayland Crossing	633	CB&Q
Wayne	694	CB&Q
Wayside	1006	ISŪ
Webb	1368	CM&StP
Webb, crossing CRI&P	1378	CM&StP
Webster	848,G858	CRI&P
Webster, crossing CM&StP	846	CRI&P CM&StP
Webster, crossing CRI&P	853	CM&StP
Webster City	1050.G1047	IC
Webster City, crossing C&NW	1053,G1047	IC
Webster City	1044	FtDDM&S
Webster City		C&NW
Webster City, crossing IC	1053	C&NW
Weed or Herring	1227	C&NW
WeldonWellman		CB&Q CRI&P
Wellsburg		CRI&P
Wellston		CM&StP
Welton		CM&StP
Wescott		$^{\mathrm{CB}\&\mathrm{Q}}$

	ELEVATION	9
STATION	FEET	AUTHORITY
Wesley	12 <b>5</b> 2,G1257	CM&StP
West Bend	L203,G1197	CRI&P
West Bend	G1197	Weather Bur.
Westboro, Mo	986	$^{\mathrm{CB\&Q}}$
West Branch		CRI&P
West Chester	963	CRI&P
West Davenport, see Davenport, West Westfield, Black Hawk Co.	. 853	CRI&P
Westfield Plymouth Co	. 000 1137 G1133	CM&StP
Westfield, Plymouth Co. Westfield, T. 91 N., R. 48 W., sec. 6, NW. cor.; iron post	101,01100	CMACOL
stamped "Ynktn 1314"	1,313.920	Bull. 569
Westfield, 15 meters west of railway, 21 meters north of	,	
road, 6.55 meters south of NE. cor. Hopkins elevator, 0.3		
meter above ground, 0.1 meter north of south edge of		
jasper rock, at east edge; bottom of square hole (U.S.C.	1 100 000	70 11 700
&G.S.b.m. V)	1,129.926	Bull. 569
Westfield, 1 kilometer north of, 13 meters west of railway, 12 meters south of road, 1 meter west of fence, 0.3 meter		
below rails; copper bolt in top of stone post lettered		
"U.S.B.M." (U.S.C.&G.S.b.m. U)	1,129.263	Bull. 569
Westfield, 1.6 kilometers south of, 14 meters east of rail-	-,	
way, 15 meters west of road along track, 5 meters north		
of road, 1 meter south and west of fences, 0.6 meter be-		
low rails; copper bolt in top of stone post lettered "U.		
S.B.M.'' (U.S.C.&G.S.b.m. W)	1,121.937	Bull. 569
Westfield, 3.2 kilometers south of, 14 meters east of rail-		
way, 12 meters west of road along track, 6 meters north of road, 0.8 meter below rails; iron pipe (U.S.C.&G.S.		
b.m. X)b.m. xo	1,127.225	Bull. 569
Westfield, 4.2 kilometers south of, 1,017 meters east of	_,	242. 000
bridge over Big Sioux river, 4 meters east of private		
road, 14 meters south of track, on jasper rock of quartz-		
ite, roughly squared for building purposes, about 1 by		
0.5 by 3 meters, set 1 meter north of fence and 0.2 meter		
above rails; bottom of square hole (U.S.C.&G.S.b.m. Y)	1,116.369	Bull. 569
Westfield, 5.2 kilometers south of, at east end of railway bridge over Big Sioux river, on NE. pier of central four		
under old railway water tank, on extreme NW. cor. of		
stone, at upper level, 0.4 meter above ground; bottom of		
square hole (U.S.C.&G.S.b.m. Z)	1,118.088	Bull. 569
Westgate10	93.4,G1092	CGW
Westgate, B.M. on doorsill of schoolhouse	G1114	usgs
West Grove		$c_{B}$
West Grove	943	WRR
West Keithsburg Mississinni niver	$548 \\ 531$	M&StL M&StL
West Keithsburg, Mississippi river	991	MICOSCII
Bay, 18 meters from shore, 9.1 meters 341° 30′ to 10-inch		
locust, 1 meter 206° to 34-inch elm tree, 19.3 meters 73°		
to 20-inch elm tree, 18 meters 87° to 20-inch elm tree;		
copper bolt in tile surmounted by iron pipe (U.S.C.E.		
b.m. 130/2):		
Copper bolt	527.77	Bull. 569
Cap on pipe	531.79	
from bank of main channel, 8.2 meters 94° to 30-inch elm		
tree; copper bolt in tile surmounted by iron pipe (U.S.C.		
E.b.m. 130/3):		
Copper bolt	524.70	Bull. 569
Cap on pipe	<b>528.72</b>	_
West Liberty	665,G673	CRI&P
West Okoboji	1437	CRI&P

STATION	ELEVATION FEET	AUTHORITY
Weston, 3 miles west of, 0.25 mile south of milepost 491, in concrete culvert on east side of track; aluminum		70 11 1100
Weston, in front of CRI&P Ry station; top of rail————Weston, 100 feet north of CRI&P Ry station, 15 feet west	1,021.296 1,036.4	Bull. 569 Bull. 569
of track; iron post	1,037.399 1033,G1035	Bull. 569 CRI&P
West Point	754.8	${ m CM\&StP} \ { m CB\&Q}$
West Side West Union, corner of Main and Walnut Sts., south wall	1324,G1326	C&NW
of building of public school, in coping stone; aluminum tablet stamped ''1186 DBQ''	1,187:570 1,104.6	Bull. 569 Bull. 569
West Union, at junction of CM&StP Ry with CRI&P Ry West Union, in front of CRI&P Ry station; top of rail	1,106.7 1,105.9	Bull. 569 Bull. 569
West Union, south meridian stone in county-fair grounds; aluminum tablet stamped "1111 DBQ"	1,112.163	Bull. 569
West Union	1107 1108 1105	CM&StP CM&StP CRI&P
Wever	541,G540	CB&Q CRI&P
What Cheer	683,G671	C&NW CM&StP CM&StP
Wheatland, crossing C&NW	680,G682	C&NW C&NW
WheelerWheelerwood		CM&StP C&NW
Wheeling, 0.75 mile east of, north side of road, 120 feet west of track at road crossing; iron post stamped "910 Adj"	908.872	Bull.569
White City, T. 74 N., R. 17 W., about 700 feet east of		CB&Q
quarter corner between secs. 35 and 36, 15 feet south of	740.00	Tagg
C&NW Ry track, in top center on west end of culvert under railroad; bolthead, painted "U.S.B.M. 743.4" White City, T. 74 N., R. 17 W., near SE. cor. SW. ¼ sec. 25, 60 feet north of road crossing C&NW Ry, on west	743.09	USGS
side of road, 1 foot east of fence, driven in ground; 0.75-inch gas pipe, painted "U.S.B.M. 728.9"	728.55	USGS
White City, T. 74 N., R. 17 W., at quarter corner between secs. 25 and 26, 60 feet west by 25 feet south of center		
of roads, at T road north on top of high bank, in root on north side of a 1-foot elm tree; copper nail and washer, painted "U.S.B.M. 810.9"	810.58	USGS
White City, T. 74 N., R. 17 W., near quarter corner between secs. 23 and 24, 35 feet north of bridge over Big		
Bluff creek, on west side of road, 6 feet east of fence, in root on west side of a 3-foot elm tree; copper nail and washer, painted "U.S.B.M. 712.2"	711.83	USGS
White City, near corner of secs. 13, 14, 23 and 24, T. 74 N., R. 17 W., at road crossing C&NW Ry; top of north		
white City, T. 74 N., R. 17 W., at cor. secs. 13, 14, 23 and 24, in NE. angle of crossroads, 7 feet north by 1 foot	721.03	USGS
west of corner fence post in top of concrete post; bronze tablet stamped "E.B. No. 14 1924 Iowa", painted "U.		
S.B.M. 735.7'' White City, reference mark, 35 feet north of tablet on east side of road to north, 1 foot west of fence, in root on	735.392	USGS
blac of load to holdin, I look west of lence, in look on		

	ELEVATION	
STATION	FEET	AUTHORITY
NE. side of 6-inch box-elder tree; copper nail and	-0	****
Washer	734.71	USGS
White City, T. 74 N., R. 17 W., center of sec. 13, in NE. angle of roads at T road north, in top center of con-		
crete headwall to culvert under road; chiseled square,		
painted "U.S.B.M. 787.0"	786.66	USGS
painted "U.S.B.M. 787.0"		,
secs. 12 and 13, in NW. angle of crossroads, 60 feet	1	
north by 15 feet east of fence corner, in root on east		,
side of 3-foot oak tree; copper nail and washer, painted	842.84	USGS
"U.S.B.M. 843.2"	012.01	- 0000
secs. 1 and 12, in NW, angle of roads at T road west, 6		
feet east of fence corner, 1 foot south of west end of		
metal culvert under road, in top of a large stone; chiseled square, painted "U.S.B.M. 740.1"		~~~~
eled square, painted "U.S.B.M. 740.1"	739.69	USGS
White City, Riverside Church, at forks of road just north		
of Eveland bridge, in NE. cor. yard; iron post stamped "Prim. Trav. Sta. No. 9, 1908 E.B. No. 15 1924 Iowa",		
painted "U.S.B.M. 680.8" (Bul. 569, p. 117, U.S.C.E.		
B.M. 54=681.30)	680.422	USGS
White City, reference mark, 65 feet south by 12 feet west		
of P.B.M., in SE. cor. Riverside Church yard, in root on		~~~~
SW. side of 2-foot maple tree; copper nail and washer	682.31	USGS
White City, Eveland highway bridge, top of upstream end		
second pier from north or left bank, U.S.C.E. B.M. 72 (Engineers' elevation P. 117, Bul. 569=688.13)	687.087	USGS
White Cloud	993	WRR
White Cloud, crossing CB&Q	992	WRR
White Cloud	973	IaGS
Whiting	1061.G1061	C&NW
Whiting, T. 84 N., R. 46 W., 990 feet north of SW. cor. sec.		
7, opposite Blackbirds Hill, on east side of section-line road, 490 feet south of G. H. Brooks's house; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
137/2):		
Copper bolt	1,061.76	Bull. 569
Cap on pipe	1,065.81	
Whiting, T. 84 N., R. 46 W., 476 feet north of SE. cor.		
sec. 4, on west side of section-line road, on land owned		
by M. Crawford; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 137/3):		
Copper bolt	1,058.25	Bull. <b>569</b>
Cap on pipe	1,062.32	Dan. 000
Whiting station, 2.8 miles south of, 958 feet south of mile-	_,00	
post 44, 46 feet east of railway, 3 feet from east right-		
of-way fence, 6 feet south of south fence of road cross-		
ing; copper bolt in bench-mark stone surmounted by		•
iron pipe (U.S.C.E.p.b.m. 380):	1 051 106	D11 #60
Copper bolt	1,051.186 1,055.211	Bull. <b>5</b> 69
Whiting station 1.050 feet south of 66 feet south of	1,000.211	
south headblock at Whiting, 46 feet east of railway;		
copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 381):		
Copper bolt	1.057.058	Bull. 569
Cap on pipe	1,061.129	
Whiting station, 2.5 miles north of, 282 feet south of mile- post 49, 46 feet east of railway, opposite Daley's dwell-		,
hope to, to teer east of rammal, opposite Datel a quell-		

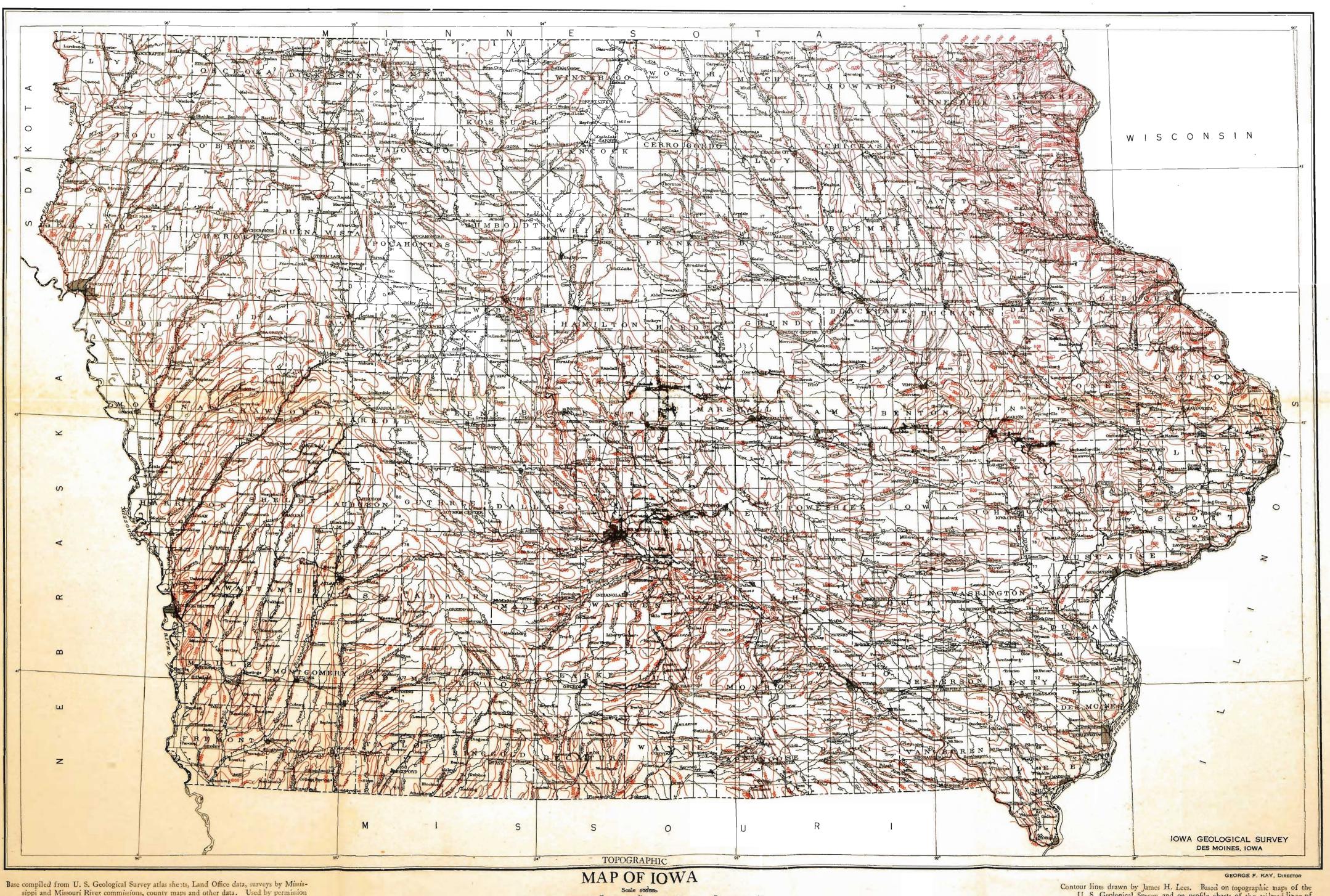
·	ELEVATION	
STATION	FEET	AUTHORITY
ing; copper bolt in bench-mark stone surmounted by iron		
pipe (U.S.C.E.p.b.m. 382): Copper bolt	1,060.444	Bull. 569
Cap on pipe	1.064.460	ъш. 509
Whittemore		CM&StP
Whitten	1040,G1041	C&NW
Wick		CB&Q
Wightman11	72.6,G1179	$CG\overline{W}$
Wilke	1147,G1145	IC
Wilkins, see also second entry under Massey	617,0616	CM&StP
Willett MP 470	1067	IC
Willett, M.P. 479	1071	ĨĊ
Williams	1206.G1212	ĨČ
Williamsburg	760,G765	CM&StP
Williamson, Adams Co.	1300	IaGS
Williamson, Lucas Co.	1022	CRI&P
Williamson, T. 73 N., R. 21 W., at center of sec. 23, at T		
road west, 4 leet west of Nw. cor, Sam Brightwell's	1 011 00	D.11 560
yard, in top of peg; copper nail	1,011.80	Bull. 569
opposite road to east, on west side of north-south road,		
1 foot north of telephone pole; in top of wooden peg;		
copper nail	875.17	Bull. 569
copper nail		
south side of sec. 33, at jog in road about 0.2 mile north		
of township line, 1 foot east of telephone pole, in top of		T 11
wooden peg; copper nail	993.12	Bull. 569
Williamson, T. 73 N., R. 21 W., at quarter corner on south side of sec. 28, opposite T road south, 40 feet NE. of		
intersection, 3 feet south of fence; iron post stamped		
"Towa. 974 1913"	974.338	Bull. 569
"Iowa, 974 1913",		
34, near center of T road north, in root of 8-inch willow		
tree; copper nail	987.91	Bull. 569
Williamson, T. 73 N., R. 21 W., at SE. cor. sec. 21, in NW.		
angle of T road west, 1 foot east of end of hedge fence,	1 010 07	TO 11 F.00
in top of osage peg; copper nail	1,019.07	Bull. 569
16, in center of crossroads, on section stone, chiseled		
circle	1,009.65	Bull. 569
Williamson, T. 73 N., R. 21 W., at SE. cor. sec. 16, in NW.	,	
angle T road west in SE. cor. school yard (Center		
School); iron post stamped "Iowa, 993, 1913"	993.558	Bull. 569
Williamson, T. 73 N., R. 21 W., at quarter corner between secs. 21 and 22, at T road east, in NW. cor. bridge floor,		
secs. 21 and 22, at T road east, in Nw. cor. bridge noor,	057.07	D.11 560
in plank; copper nail	957.97	Bull. 569
site T road south, on north side of east-west road, 2.5		
feet south of wire gate, in top of peg; copper nail	1,009.29	Bull. 569
Williamson, T. 73 N., R. 21 W., about 0.15 mile west of SE.	,	
cor. sec. 17, at NW. cor. crossroads 33 feet west of cen-		
ter of crossroads, in top of charred maple stump; cop-	010.00	T *1 #40
per nail		Bull. 569
Willit, Van Buren Co. Wilson	777	CB&Q CRI&P
Wilton		CRI&P
Wilton	G683	Weather Bur.
Winfield'	704,G697	M&StL
Winfield, crossing CB&Q	682, <b>G</b> 675	M&StL
Winfield	704,G698	CB&Q
Winkelmans	1056,61058	CM&StP

	ELEVATION	
STATION	FEET	AUTHORITY
Winslow	890,G884	CRI&P
Winterset	1117,G1118	CRI&P
Winterset	G1129	Weather Bur.
Winthrop	1038,G1042	IC
Wiota 50 feet worth of two ly appropriate point on (400 ell alternative)	1200,61202	CRI&P
Wiota, 50 feet north of track, opposite point on track about	1,199.238	D.:11 560
700 feet west of station; iron post	1,203.5	Bull. 569 Bull. 569
Wiota, bed of Turkey creek at	1185	IaGS
Wise, crossing wagon road	986	IC
Witmer	795	CRI&P
Woden	1233	CRI&P
Woden	1086.71	FtDDM&S
Wolf	1091	M&StL
Wolf, crossing FtDDM&S	1093	M&StL
Woodbine, crossing under IC.	1008,61008	C&NW C&NW
Woodbire	1044 1071 G1069	IC
Woodburn		CB&Q
Woodburn, upland south of	1100	IaGS
Woodburn, creek bed at	943	IaGS
Woodward	.1060.G1065	CM&StP
Woodward, 1 mile south by 2 miles west of, at T road,		
north side of sec. 14, Beaver township; iron post stamped		T 11
"910"	909.150	Bull. 569
Woodward, 2 miles west of, at road crossing; SE. cor. sec.	950.81	D <sub>11</sub> 11 560
3, Beaver township; spike in base of telephone pole	950.51	Bull. 569
Woodward, 0.5 mile north by 2 miles west of, at T road, SE. cor. sec. 34, Peoples township; spike in base of		
fence post	1.007.94	Bull. 569
Woodward, 1 mile north by 2 miles west of, at road cross-	·	
ing, west side of sec. 35, Peoples township; spike in base		
of fence post	1.016.31	Bull. 569
Woodward, 1.5 miles north by 2 miles west of, at T road,		
SE. cor. of sec. 27, Peoples township; spike in base of		D 11 500
fence post		Bull. 569
Woodward, 5 miles south of, at road crossing, SW. cor. sec. 31, Des Moines township; spike in base of fence post	983.61	Bull. 569
Woodward, 5 miles south by 1 mile west of, at road cross-		Duii. 503
ing, NW. cor. sec. 1, Sugar Grove township; spike in base		
of fence post	982.40	Bull. 569
of fence post		
NW. cor. sec. 2, Sugar Grove township; spike in base of		
Woodward, 5 miles south by 3 miles west of, at road cross-	954.08	Bull. 569
Woodward, 5 miles south by 3 miles west of, at road cross-		
ing, SE. cor. sec. 33, Beaver township; iron post stamped	054 107	D.11 560
Woodward, 4 miles south by 3 miles west of, at road cross-	954.107	Bull. 569
ing, SE. cor. sec. 28, Beaver township; spike in base of		
fence post	930.85	Bull. 569
Woodward, 3 miles west by 3 miles south of, at road cross-	000.00	
ing, NW. cor. sec. 27, Beaver township; spike in base of		
telephone pole	941.37	Bull. 569
Woodward, 2 miles south by 3 miles west of, at T road		
near school building, NW. cor. sec. 22, Beaver township;	0.01 10	D-11 500
spike in base of telephone pole	961.13	Bull. 569
Woodward, 2.5 miles west by 3 miles north of, at road crossing; NW. cor. sec. 26, Peoples township; spike in		
base of telephone pole	1,071.49	Bull. 569
Woodward, 1.5 miles west by 2.5 miles north of, at T road,	_,	
SW. cor. sec. 24, Peoples township; spike in base of		
fence post (map says 1067)	1,072.43	Bull. 569
•		

±.	ELEVATION	
STATION TO A CONTRACT OF THE STATE OF THE ST	FEET	AUTHORITY
Woodward, 0.5 mile west by 2.0 miles north of, at road crossing, east center of sec. 25, Peoples township; spike		
in hase of telephone nole	1,058.08	Bull. 569
in base of telephone pole	1,000.00	Dun. 005
Cass township; iron post stamped "1038"	1,036.898	Bull, 569
Woodward, 2 miles north by 1 mile east of, at T road,	,	
center of sec. 29, Cass township; spike in base of tele-		
phone pole	1,023.94	Bull. 569
Woolson	745.62	$^{\mathrm{CB\&Q}}$
Woolstock		C&NW
Workman Crossing	947	ISU
Worthington	919,0920	CM&StP
junction of wagon roads; iron post stamped "886"	877.897	Bull. 569
Worthington, T. 87 N., R. 3 W., cor secs. 10, 11, 14 and 15.	011.031	Dui. 503
iron post stamped "952"	943.004	Bull. 569
Worthington, T. 88 N., R. 3 W., near center NE. 4 sec. 36.	0.201001	2001
50 feet SE. of highway bridge over Maguoketa river:		
iron post stamped ''908''	896.874	Bull. 569
Worthington, near north line of sec. 31, T. 88 N., R. 2 W.,		
SW. cor. A St. and Fourth Ave.; iron post stamped		
	921.206	Bull. 569
Wren, crossing IC	1145	GN
Wren, M.P. 497	1151	īc
Wren, crossing GN	1150	IC
Wren	1148.55	C&NW
Wren, junction switch with IC	1146.7	C&NW C&NW
Wright	846 850 G843	M&StL
Wright	840	M&StL
Wyman	7 <b>2</b> 8	CB&Q
Wyoming	815 G813	CM&StP
Yale	1126.G1128	CM&StP
Yarmouth		CB&Q
Yellow River		CM&StP
Yellow River, Island 166, planted on, 20 meters back from	,	
shore on high ground, 600 meters above head of Island		
169; copper bolt in tile surmounted by iron pipe (U.S.		
C.E.b.m. 198/2):		
Copper bolt	616.07	Bull. 569
Cap on pipe	620 <b>.05</b>	
Yellow River station, 300 meters above, on south side of		
bluff about 0.5 mile above Yellow river, opposite a point		
5 meters above headblock of switch; 15 meters west of		
center of railroad track; copper bolt in tile surmounted		
by iron pipe (U.S.C.E.b.m. 198/3): Copper bolt	655 60	Bull. 569
Cap on pipe	655.68 6 <b>59.65</b>	.Бин. 509
Yellow River, Island 166, on high ground at west edge of	000.00	
garden and 30 meters below small house at north end of		
cultivated field, 20 meters back from shore, 15 meters		
south of dead 4-foot cottonwood which branches into four		
prongs about 12 feet above ground, opposite mouth of		
Paint creek, 800 meters below Government light; copper		
bolt in tile surmounted by iron pipe (U.S.C.E.b.m.		
199/2):		_
Copper bolt		Bull. <b>5</b> 69
Cap on pipe		
Yetter		IC
Yoder		CRI&P
Yorkshire		CM&StP
Yorktown	7029,07033	$^{\mathrm{CB\&Q}}$

Station	ELEVATION FEET	AUTHORITY
Young, top of rail on south line of sec. 35, Tp. 81, R. 7, 750 feet west of S. ¼ cor. sec. 35		CR&IC CRI&P C&NW M&StL
Zollicoffer Lake, 150 meters above railroad station at, in right of way of CM&StP Ry, 0.5 meter from fence, at foot of bald bluff, 25 meters above upper end of curve at station; copper bolt in tile surmounted by iron pipe (U.S.C.E.b.m. 182/3):		
Cap on pipe	623.54 626.13	Bull. 569
Zumwalt	1000 ents]	FtDDM&S
Zumwalt, pole A308, 1.3 feet above ground, in track side of; spike	1,021.40	Bull. 569
A273, I foot above ground, pole is on south side of east- west road along north line of sec. 20	1,004.33	Bull. 569
pole A253, 16 feet west of center line of track, 1 foot above ground	983.91	Bull. 569
head wall of 12-inch pipe; square cut	959.42	Bull. 569
Zumwalt, pole A195, 1 foot above ground, in track side of; spike	935.66	Bull. 569
Zwingle		CM&StP
Ry, near west section line, 10 feet south of track; iron post stamped "921"	912.386	Bull. 569
Zwingle station, sec. 35, T. 87 N., R. 2 E., CM&StP Ry, west end of platform; iron post stamped "902"	893.977	Bull. 569

o . -



Base compiled from U. S. Geological Survey atlas sheets, Land Office data, surveys by Mississippi and Missouri River commissions, county maps and other data. Used by permission of the U. S. Geological Survey.

CONTOUR INTERVAL: 100 FEET 1925

AMERICAN LITHO IL PIS CO DES MOIRES M

Contour lines drawn by James H. Lees. Based on topographic maps of the U. S. Geological Survey and on profile charts of the railroad lines of