

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

BULLETIN 572

CANCELLED.

RESULTS OF SPIRIT LEVELING IN NEBRASKA

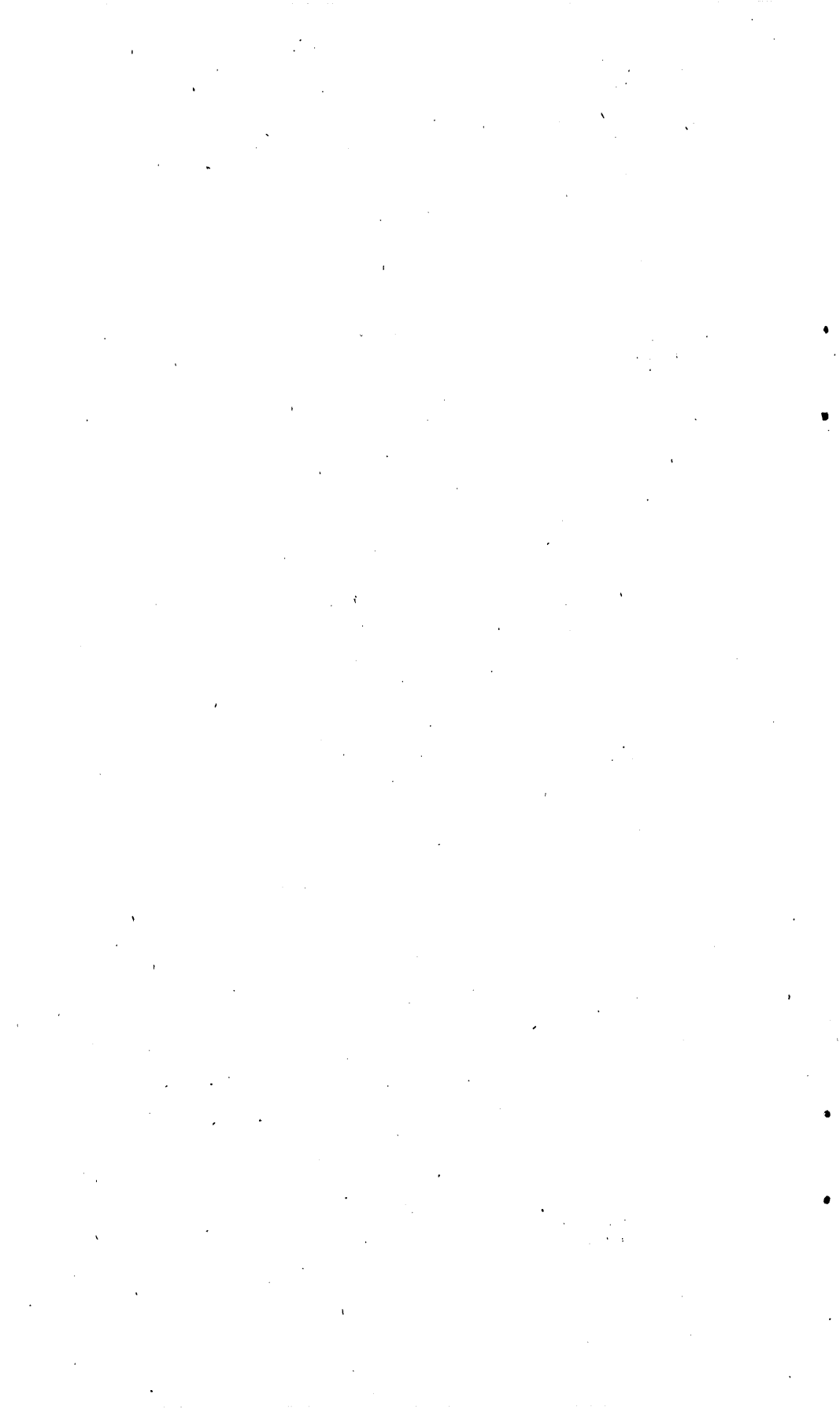
1896 TO 1913, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

Work done in cooperation with the State from 1911 to 1913, inclusive, through the
Board of Regents of the University of Nebraska, C. S. Allen, President



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GEOLOGICAL SURVEY BENCH MARKS

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

RESULTS OF SPIRIT LEVELING IN NEBRASKA, 1896 TO 1913, INCLUSIVE.

R. B. MARSHALL, Chief Geographer.

INTRODUCTION.

Cooperation.—The State of Nebraska contributed financially to the work from 1911 to 1913, inclusive, through the board of regents of the University of Nebraska, C. S. Allen, president.

Previous publication.—All results of spirit leveling in Nebraska published by the United States Geological Survey in Bulletin 473 and all the results of later work are included in this report. Elevations are based on heights of bench marks along precise-level lines of the Coast and Geodetic Survey and of the Missouri River Commission, as adjusted in 1912 by the Coast and Geodetic Survey, and are likely to be changed but slightly by any future adjustment. The elevations of bench marks in the western part of the State are based on railroad data and are, therefore, only approximate.

Personnel.—The field work previous to 1903 was done under the general direction of J. H. Renshaw, geographer; that for 1903 to 1906, inclusive, under H. M. Wilson, geographer; and the later work under the supervision of W. H. Herron, geographer, under R. B. Marshall, chief geographer. The names of the respective levelmen are given in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—No precise leveling has been done by the United States Geological Survey in Nebraska. For primary lines standard Y levels are used; lines are run in circuits or are closed on precise lines, with an allowable closing error in feet represented by $0.05\sqrt{D}$, in which D is the length of the circuit in miles, sufficient care being given to the work to maintain this standard. For levels of this class careful office adjustments are made, the circuit errors being distributed over the lines.

Bench marks.—The standard bench marks are of two forms. The first form is a circular bronze or aluminum tablet (C and E, Pl. I),

3½ inches in diameter and one-quarter inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (F, Pl. I), used where masonry or rock is not available, consists of a hollow wrought-iron post 3½ inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. The bottom is spread out to a width of 10 inches in order to give a firm bearing on the earth. A bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark with abbreviated lettering (B and D, Pl. I) is used for unimportant points. This consists of a special copper nail 1½ inches in length driven through a copper washer seven-eighths inch in diameter. The tablets, as well as the caps on the iron posts, are appropriately lettered, and cooperation by States is indicated by the addition of the State name (G, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with $\frac{3}{16}$ -inch steel dies on the tablets or post caps, to the left of the word "feet." The office adjustment of the notes and the reduction to mean sea-level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, 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 winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. *Mean sea level is the average height of the water, all stages of the tide being considered.* It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, or the Pacific Ocean.

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

Topographic maps.—Maps of the following quadrangles wholly or partly in Nebraska have been published by the United States Geological Survey up to November 1, 1914. They may be obtained, except as noted, for 10 cents each or \$3 for 50, on application to the Director of the Survey at Washington, D. C.

Arapahoe (Nebr.-Kans.).

Browns Creek.

Camp Clarke.

Chappell.

David City.

Edgemont (S. Dak.-Nebr.).

Elk Point (S. Dak.-Nebr.-Iowa.).

Fremont.

Goshen Hole (Wyo.-Nebr.).

Gothenburg.

Grand Island 30'.¹

*Grand Island 15'.¹

Hebron (Nebr.-Kans.).

Holdrege (Nebr.-Kans.).

Kearney 30'.²

Kearney 15'.²

*Kenesaw.³

Lexington.

Lincoln.

Loup.

Minden.³

Nebraska City (Nebr.-Iowa-Mo.).

North Platte.

Oelrichs (S. Dak.-Nebr.).

Ogalalla.

Omaha and vicinity (Nebr.-Iowa) (20 cents).

Patrick (Wyo.-Nebr.).

Paxton.

Red Cloud (Nebr.-Kans.).

St. Paul.

Scotts Bluff.

Sidney.

Stromsburg.

Superior (Nebr.-Kans.).

Wahoo.

Weeping Water.

Whistle Creek.

Wood River 30'.³

*Wood River 15'.³

York.

PRIMARY LEVELING.

Elk Point quadrangle.

DIXON COUNTY.

The elevations in the following list were determined by primary leveling extended from bench marks of the Missouri River Commission. A correction of -0.525 foot has been subtracted from the values published in part 3 of the Report of the Chief of Engineers,

* Out of print.

¹ Grand Island 15' sheet, on scale of 1:62,500, has been reduced and forms part of Grand Island 30' sheet, on scale of 1:125,000.

² Kearney 15' sheet, on scale of 1:62,500, has been reduced and forms part of Kearney 30' sheet, on scale of 1:125,000.

³ Kenesaw, Minden, and Wood River 15' sheets, on scale of 1:62,500, have been reduced and form parts of Wood River 30' sheet, on scale of 1:125,000.

United States Army, for 1894, at and west of Elk Point, a junction point with a precise-level line of the Coast and Geodetic Survey, which crosses this quadrangle along the Chicago, Milwaukee & St. Paul Railway.

The leveling was done in 1898 by D. C. Wray.

Elevations in South Dakota and Iowa in this quadrangle are given in Bulletins 472 and 569 respectively.

ELK POINT QUADRANGLE.

[Latitude $42^{\circ} 30' - 43^{\circ}$; longitude $96^{\circ} 30' - 97^{\circ}$.]

From Ponca Ferry south to corner of Tps. 29 and 30 N., Rs. 6 and 7 E., thence west to line of Rs. 5 and 4, thence north to line of Tps. 30 and 31 N., thence east to line of Rs. 5 and 6.

Permanent bench mark 355-1, Missouri River Commission (redetermined by Coast and Geodetic Survey), west bank, at foot of bluffs, about 0.5 mile below Ponca Landing, in farmyard of John Austin, about 300 feet southwest from his dwelling house, 250 feet south of road between Ponca and Ponca Landing; copper bolt in bench-mark stone set 4 feet under ground, covered by 3-inch iron pipe marked "U. S. B. M."	Feet. 1, 118. 052
T. 30 N., R. 6 E., 0.25 mile west from southwest corner of sec. 36; iron post stamped "Ynktn 1348."	1, 347. 405
T. 29 N., R. 6 E., northwest corner of sec. 6, in school yard; iron post stamped "Ynktn 1211"	1, 210. 964
T. 29 N., R. 5 E., northwest corner of sec. 6; iron post stamped "Ynktn 1465"	1, 464. 707
T. 30 N., R. 5 E., northwest corner of sec. 6; iron post stamped "Ynktn 1466"	1, 465. 901

From Ponca northwest along highway to T. 32 N., R. 4 E.

T. 31 N., R. 5 E., southwest corner of sec. 36; iron post stamped "Ynktn 1296"	1, 295. 931
T. 31 N., R. 5 E., northwest corner of sec. 6; iron post stamped "Ynktn 1166"	1, 165. 825

McPaul, Omaha and vicinity, and Weeping Water quadrangles.

CASS, JOHNSON, LANCASTER, OTOE, AND SARPY COUNTIES.

The elevations in the following list are based on bench marks of the Missouri River Commission in the vicinity of Omaha, Nebr., and on stone lines at Plattsmouth and Nebraska City run from the main precise-level line bench marks 336 and 327 on the Iowa side of Missouri River.

The leveling in the McPaul and Omaha quadrangles and in the north half of the Weeping Water quadrangle was done in 1902 by M. A. Steele; that in the south half of the Weeping Water quadrangle was done in 1902 by John Wilson.

OMAHA AND VICINITY QUADRANGLE.

[Latitude 41°-41° 23'; longitude 95° 45'-96° 05'.]

At Plattsmouth.

Plattsmouth, at railroad bridge across Missouri River, 10 feet south of and on line with first trestle bent west of west pier; copper bolt in bench mark stone (Mo. R. Comm. b. m. "336 B" or 117 1)	Feet. 953. 109
Plattsmouth, in courthouse yard, 6 inches east of masonry base of cannon; iron post stamped "990 Omaha"	988. 295
Plattsmouth, in front of station; top of rail	1, 062. 1

McPAUL QUADRANGLE.

[Latitude 40° 45'-41°; longitude 95° 45'-96°.]

From Mynard south via Missouri Pacific Ry. to Murray.

Mynard, in front of station; top of rail	1, 085. 8
Murray, in front of station; top of rail	1, 145. 0
Murray, in northwest corner of school yard, 23 feet north of northwest corner of building; iron post stamped "1189 Omaha"	1, 187. 266

WEEPING WATER QUADRANGLE.

[Latitude 40° 30'-41°; longitude 96°-96° 30'.]

From southwest corner of sec. 15, T. 11 N., R. 12 E., along highways to southwest corner of sec. 2, T. 10 N., R. 12 E.

T. 11 N., R. 12 E., southwest corner of sec. 15, 36.5 feet north and 21 feet east of center of crossroads; iron post stamped "1251 Omaha"	1, 249. 960
T. 11 N., R. 11 E., southeast corner of sec. 16, 10 feet north and 2 feet east of 15-inch cottonwood tree; iron post stamped "1302 Omaha"	1, 301. 077
T. 11 N., R. 10 E., southeast corner of sec. 16, 33 feet west and 36 feet north of center of crossroads; iron post stamped "1282 Omaha"	1, 280. 328
T. 11 N., R. 9 E., southwest corner of sec. 15, 32 feet east and 37.5 feet north of center of crossroads; iron post stamped "1256 Omaha"	1, 255. 072
T. 11 N., R. 8 E., 0.25 mile south of northwest corner of sec. 24 at southeast corner of intersection of north-south and east-west roads, 2 feet east and 2 feet south of corner fence post; iron post stamped "1143 Omaha"	1, 141. 760
T. 12 N., R. 12 E., northwest corner of sec. 34, 40.5 feet north and 44 feet west of northwest corner of schoolhouse; iron post stamped "1218 Omaha"	1, 216. 402
T. 10 N., R. 12 E., southwest corner of sec. 2, in southeast corner of school yard, 66 feet south and 57 feet east of southeast corner of building (schoolhouse 38); iron post stamped "1119 Omaha"	1, 117. 565

From center of T. 11 N., R. 9 E., south to center of T. 9 N., R. 9 E.

T. 10 N., R. 9 E., northwest corner of sec. 27, 34.5 feet east and 42 feet south of center of crossroads; iron post stamped "1329 Omaha"	1, 327. 345
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From center of T. 11 N., R. 9 E., north 5 miles, thence east 5 miles, thence south 5 miles.

T. 12 N., R. 9 E., southeast corner of sec. 21, 37.5 feet north and 31.5 feet west of center of crossroads; iron post stamped "1113 Omaha"	1, 111. 677
T. 12 N., R. 10 E., northwest corner of sec. 33, 22 feet east and 22 feet south of center of crossroads; iron post stamped "1221 Omaha"	1, 219. 580

From southeast corner of sec. 14, T. 11 N., R. 11 E., south 5 miles, thence west 2 miles, thence south 7 miles to center of T. 9 N., R. 11 E.

	Feet.
Weeping Water, in front of station; top of rail.....	1, 079. 1
Weeping Water, 97.5 feet north by 95.5 feet east of northeast corner of high-school building, in school yard; iron post stamped "1084 Omaha".....	1, 082. 888
From center of T. 10 N., R. 11 E., west 6 miles, thence north to center of T. 11 N., R. 10 E.	
Elmwood, 3 feet south by 3 feet east of corner of water tower; iron post stamped "1295 Omaha".....	1, 293. 673
From Dunbar west along Missouri Pacific Ry. to point near center of T. 8 N., R. 12 E., thence north to center of T. 9 N., R. 12 E., and return.	
Dunbar, in front of Missouri Pacific Ry. station; top of rail.....	1, 049. 08
Dunbar, in front of Chicago, Burlington & Quincy R. R. station; top of rail.....	1, 048. 45
T. 8 N., R. 12 E., corner of secs. 9, 10, 15, and 16, 2 feet east of southeast corner of crossroads; iron post stamped "1101 Omaha".....	1, 099. 535
T. 9 N., R. 12 E., southeast corner of sec. 16, in southwest corner of school yard; iron post stamped "1215 Omaha".....	1, 213. 898
From Dunbar west to Syracuse, thence north to center of T. 9 N., R. 9 E., west through T. 9 N., south in R. 9 E., and east through T. 8 N., to Syracuse with checked spur east into R. 8 E.	
Syracuse, 1 mile north of, at northwest corner of sec. 15, T. 8 N., R. 11 E., 2 feet south and 8 feet east of southeast corner of road crossing; iron post stamped "1132 Omaha".....	1, 130. 790
T. 9 N., R. 11 E., northwest corner of sec. 27, in northwest corner of school yard; iron post stamped "1262 Omaha".....	1, 260. 666
T. 9 N., R. 10 E., southeast corner of sec. 16, 25 feet north and 1 foot east of northwest corner of road crossing; iron post stamped "1259 Omaha".....	1, 258. 836
T. 9 N., R. 9 E., northeast corner of sec. 21, in southeast corner of school yard; iron post stamped "1310 Omaha".....	1, 308. 546
T. 9 N., R. 8 E., southwest corner of sec. 24, east of schoolhouse; iron post stamped "1313 Omaha".....	1, 311. 157
T. 8 N., R. 9 E., northwest corner of sec. 14, 20 feet east and 1 foot north of southeast corner of road crossing; iron post stamped "1150 Omaha".....	1, 150. 841
Unadilla, 2 miles south of, at southeast corner of sec. 15, T. 8 N., R. 10 E., 12 feet west and 1 foot south of road crossing; iron post stamped "1231 Omaha".....	1, 229. 797
Palmyra south through R. 9 E., thence east in T. 7 N. and north in R. 12 E. to point near Dunbar, with checked spur east into R. 8 E. and south into T. 6 N.	
T. 8 N., R. 9 E., northwest corner of sec. 35, 35 feet due east of corner stone; iron post stamped "1316 Omaha".....	1, 315. 015
Douglas, 0.5 mile south of, at southwest corner of sec. 11, T. 7 N., R. 9 E., 6 feet south and 3 feet west of southeast corner of road crossing; iron post stamped "1265 Omaha".....	1, 263. 758
T. 7 N., R. 10 E., southeast corner of sec. 16, in southeast corner of school (district 107) yard; iron post stamped "1289 Omaha".....	1, 287. 990
T. 7 N., R. 11 E., southeast corner of sec. 15, 8 feet north and 1 foot east of northwest corner of crossroads; iron post stamped "1064 Omaha".....	1, 062. 468
T. 7 N., R. 12 E., northwest corner of sec. 23, 20 feet east and 2 feet north of southeast corner of crossing of roads; iron post stamped "982 Omaha".....	980. 426
T. 7 N., R. 8 E., northeast corner of sec. 14, northeast of road crossing, in southeast corner of school yard; iron post stamped "1424 Omaha".....	1, 423. 044

T. 6 N., R. 9 E., southwest corner of sec. 2, 2 feet south and 2 feet west of southwest corner of crossroads; iron post stamped "1333 Omaha".....	Feet. 1, 333. 572
Cook, in southeast corner of water table of Farmer's Bank; aluminum tablet stamped "1062 Omaha".....	1, 060. 722

Nebraska City quadrangle.

CASS, NEMAHA, AND OTTOE COUNTIES.

The elevations in the following list depend on a bench mark established by the Missouri River Commission 3,884 feet north of the railroad station at Nebraska City Junction, Iowa—a stone with copper bolt buried 3 feet underground, surmounted by an iron post with a cap terminating in a rounded knob, marked "Missouri River Commission." The accepted elevation of the top of the cap is 923.689 feet.

The leveling was done in 1905 by F. W. Hughes.

NEBRASKA CITY QUADRANGLE.

[Latitude 40° 30'–40° 45'; longitude 95° 45'–96°.]

From point 2 miles west of Nebraska City Junction west to Nebraska City, thence south and west to Julian.

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".....	Feet. 922. 291
T. 8 N., R. 14 E., center of sec. 23, 460 feet west of railroad crossing, opposite bridge over Fourmile Creek; iron post stamped "927 Adj. 1903"....	925. 771
Minersville, near center of north line of sec. 12, T. 7 N., R. 14 E., northeast corner of church; iron post stamped "933 Adj. 1903".....	931. 506
Barney, near center of NE. $\frac{1}{4}$ sec. 30, T. 7 N., R. 15 E., 120 feet northwest of grain elevator; iron post stamped "913 Adj. 1903".....	911. 817
T. 7 N., R. 14 E., about center of south line of sec. 25, 200 feet northeast of bridge over Camp Creek, 2 feet southeast of 2-foot walnut tree and 20 feet southwest of 2-foot walnut tree at T road north; iron post stamped "929 Adj. 1903".....	927. 457
T. 6 N., R. 14 E., northeast corner of sec. 4, opposite Pleasant Valley schoolhouse; iron post stamped "1012 Adj. 1903".....	1, 010. 582
Julian, southwest corner of SE. $\frac{1}{4}$ sec. 32, T. 7 N., R. 14 E., 100 feet north of center of road, opposite main street through Julian; iron post stamped "1041 Adj. 1903".....	1, 039. 543
T. 6 N., R. 13 E., northwest corner of sec. 1, 30 feet south and 30 feet east of crossroads; iron post stamped "1152 Adj. 1903".....	1, 150. 696
T. 6 N., R. 13 E., northwest corner of sec. 4, 40 feet south and 30 feet east of crossroads; iron post stamped "971 Adj. 1903".....	970. 164

From Nebraska City north along Missouri Pacific Ry. to point near Wyoming, thence west and south along highways via Sunnyside and Baker schoolhouses to sec. 4, T. 6 N., R. 13 E.

Nebraska City, at north entrance to post office, in second step above pavement, 1 foot east of building; aluminum tablet stamped "1030 Adj. 1903".	1, 028. 799
Walnut Creek mills, 0.25 mile south of northwest corner of sec. 31, T. 9 N., R. 14 E., 600 feet south of Walnut Creek mills, 180 feet south of railroad crossing, 20 feet east of center of road; iron post stamped "999 Adj. 1903".....	997. 926

Wyoming, 250 feet south of station, in edge of orchard; iron post stamped "Prim. Trav. Sta. No. 8, 1120 Adj. 1903".....	Feet. 1, 118. 903
T. 9 N., R. 13 E., northwest corner of NE. $\frac{1}{4}$ sec. 21, 40 feet south and 20 feet east of road forks; iron post stamped "1111 Adj. 1903".....	1, 109. 710
Sunnyside schoolhouse, 0.8 mile west of, northwest corner of sec. 4, T. 8 N., R. 13 E., 20 feet south and 30 feet east of center of T road; iron post stamped "1218 Adj. 1903".....	1, 216. 909
T. 8 N., R. 13 E., southeast corner of sec. 17, 20 feet west and 30 feet north of center of crossroads; iron post stamped "1150 Adj. 1903".....	1, 148. 679
T. 7 N., R. 13 E., 50 feet south and 20 feet east of northwest corner of sec. 4; iron post stamped "1230 Adj. 1903".....	1, 228. 517
T. 7 N., R. 13 E., northwest corner of sec. 21, 30 feet south and 30 feet east of center of crossroads; iron post stamped "1149 Adj. 1903".....	1, 147. 808

From point 7 miles south of Baker schoolhouse west to sec. 23, T. 7 N., R. 12 E.

T. 7 N., R. 12 E., northwest corner of sec. 23, 20 feet east and 2 feet south of southeast corner of road crossing; iron post stamped "982 Omaha"....	980. 442
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At Nebraska City.

Nebraska City, in front of Chicago, Burlington & Quincy R. R. station; top of rail.....	965. 98
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Falls City 30' (comprising Falls City, Howe, Nemaha, and Stella 15' quadrangles) and Hiawatha 30' and Rulo 15' quadrangles.

NEMAHA AND RICHARDSON COUNTIES.

The elevations in the following list were determined by primary leveling extended from precise leveling of the Missouri River Commission and accord with the 1912 adjustment values thereof.

The leveling was done as follows: In Falls City 15' quadrangle in 1911 by C. P. Gross and C. P. McKinley and in 1913 by R. R. Monbeck; in Howe quadrangle in 1911 by Gross and in 1913 by Monbeck; in Nemaha and Stella quadrangles in 1911 by Gross; in Rulo quadrangle in 1911 by McKinley; and in Hiawatha (Kansas-Nebraska) quadrangle in 1913 by Monbeck.

FALLS CITY 30' QUADRANGLE.

[Latitude 40°-40° 30'; longitude 95° 30'-96°.]

From Barney along Chicago, Burlington & Quincy R. R. south to Nemaha, thence west to Missouri Pacific Ry. junction, thence north along Missouri Pacific Ry. to Julian.

T. 7 N., R. 14 E., about center line of sec. 25, 20 feet southwest of 2-foot walnut tree at T road north; iron post stamped "929".....	Feet. 927. 457
Barney, 0.25 mile south of; top of bolt painted white on northwest corner of Chicago, Burlington & Quincy R. R. iron bridge; marked "917".....	916. 36
Barney, 1.2 miles southeast of, 30 feet west of road crossing, 30 feet south of railroad; spike in telephone pole, marked "910".....	909. 04
Barney, 2.3 miles southeast of, where road crosses track, on north side of road, in fence line, 60 feet west of track; iron post stamped "909".....	908. 021
Barney, 2.9 miles southeast of, 30 feet west of track, at road crossing, 60 feet north of road; spike in east side of telephone post, marked "908".....	907. 36

Peru, 1.3 miles northwest of, at road crossing track, on north side of road, 30 feet west of track; spike in east side of telephone post, marked "905"...	Feet. 904. 10
Peru, 100 feet northwest of station, 3 feet west of southwest corner of stock fence; iron post stamped "907"	905. 804
Peru, 1 mile east of, 40 feet southeast of "Peru" signpost, on south side of track, on rock marked "907"	906. 00
Peru, 2 miles south of, 1,300 feet west of boat landing on Chicago, Burlington & Quincy Ry., in fishplate painted white on north rail; spike marked "904"	902. 76
Peru, 3 miles east of, on south side of track; spike in telephone pole marked "906"	904. 79
Wood siding, 4 miles south of Peru, 60 feet northwest of station, 2 feet west of right-of-way fence, in fence line on north side of road; iron post stamped "900"	899. 457
Brownville, 3.3 miles northwest of, at road crossing railway, 30 feet east of road, on south side of railway; spike in telephone post, marked "907" ..	906. 12
Brownville, 2 miles northwest of, on west side of track, south side of gate, 300 feet northwest of A. Moore's house; iron post stamped "905"	903. 729
Brownville, 1.1 miles west of, in southeast corner of trestle; top of bolt marked "899"	897. 89
Brownville, 600 feet south of station, on northeast corner of railroad culvert, marked "898"	897. 51
Brownville, 60 feet south of station, in fence line on north side of road, 30 feet west of track; iron post stamped "901"	899. 861
Brownville, 1.1 miles southeast of, on north side of track, on box-elder tree with three trunks, in root on south side of tree; copper washer marked "893"	892. 42
Brownville, 2 miles southeast of, south side of track near cattle guard; copper nail in tie, marked "893"	892. 20
Brownville, 3 miles south of, at road crossing, at fence corner on south side of road, west side of track; iron post stamped "889"	887. 936
Nemaha, 0.6 mile northwest of, on west side of track, 100 feet south of place where road makes steep rise over bluff; spike in telephone pole, painted "893"	892. 30
Nemaha, 130 feet south of station, north of switch at coal shed, in top of clearance post marked "888;" copper nail	886. 83
Nemaha, 0.7 mile southwest of station, 100 feet north of track, 10 feet east of tank; iron post stamped "895"	893. 843
Nemaha, 1.7 miles west of station, 400 feet east of road crossing, on northwest corner of bridge; painted bolt marked "895"	894. 44
Nemaha, 2.4 miles west of station, at road crossing, 70 feet west of crossing, 2 feet north of track; railway spike in telephone pole, marked "893"	891. 61
Nemaha, 3.5 miles west of station, south side of track, in wooden retaining wall on east end of red bridge; t. b. m. nail marked "901"	899. 70
Nemaha, 4.6 miles west of, at road crossing, east side of road, 70 feet south of railroad, 1 foot outside of fence line; iron post stamped "900"	899. 495
Bracken, 130 feet west of station, 60 feet north of track; spike in telephone post, marked "904"	902. 73
Bracken, 1.3 miles west of, on north side of track; copper washer on top of grade post marked "926"	925. 03
Bracken, 1.9 miles west of, at road crossing; spike in "Crossing" sign post, marked "954"	953. 42

Bracken, 3.1 miles west of, 100 feet east of road crossing, 20 feet west of telephone post, on north side of track, 0.5 mile east of crossing of Chicago, Burlington & Quincy and Missouri Pacific railroads; iron post stamped "964".....	Feet. 963. 141
Auburn, 3 miles south of, at railroad crossing, in top of block supporting crossing gate post; copper t. b. m. marked "985".....	983. 64
Auburn, 2 miles south of, road crossing of Missouri Pacific and Chicago, Burlington & Quincy railroads, on east side of Missouri Pacific R. R. bridge, on $\frac{3}{4}$ -inch wooden pin, marked "946".....	945. 24
Auburn, 0.4 mile southeast of Missouri Pacific Ry. station, south side of road crossing, 20 feet south of road, in timber on south end of railway bridge; copper t. b. m. nail marked "917".....	916. 59
Auburn, 0.5 mile north of station, at crossing of Main Street and Missouri Pacific Ry., south side of road, 100 feet east of track, 1 foot outside of fence line; iron post stamped "922".....	921. 098
Auburn, 1 mile north of station, on Missouri Pacific Ry. bridge, 30 feet north of road crossing, on railway culvert on west side of bridge; copper nail in timber, marked "928".....	927. 30
Auburn, 2 miles north of station, 60 feet north of track, on west side of road crossing; spike in telephone post, marked "926".....	924. 95
Auburn, 3 miles north of, on east side of Missouri Pacific Ry. bridge, 2 feet from middle of bridge; copper nail marked "934".....	933. 58
Auburn, 3.3 miles north of, at road crossing, 70 feet west of track, 2 feet outside of fence on north side of road; iron post stamped "928".....	927. 180
Auburn, 4.3 miles north of, 0.5 mile north of elevator, on southeast corner of bridge; bolt painted white, marked "941".....	939. 68
Auburn, 5 miles north of, at road crossing, north side of road, 1 foot south of southeast corner of cattle guard; copper nail marked "949".....	947. 77
Auburn, 6.4 miles north of, at road crossing, 40 feet east of railroad on north side of road, 2 feet east of corner of right-of-way fence; iron post stamped "975".....	974. 642
Julian, 2 miles south of, on north side of road crossing, on east end of timber supporting south end of bridge; copper nail marked "994".....	993. 44
From Nemaha south along Chicago, Burlington & Quincy R. R. to Verdon, thence northwest along Missouri Pacific Ry. to junction with Chicago, Burlington & Quincy R. R.	
Nemaha, 1 mile south of, on west side of track, north end of bridge; copper nail in timber of retaining wall, marked "894".....	892. 58
Nemaha, 1.5 miles south of, at road crossing, 30 feet west of track, on north side of road; spike in telephone post, marked "891".....	890. 33
Nemaha, 2.6 miles south of, 180 feet south of road crossing, on railroad culvert, on northwest corner of bridge; top of 1-inch bolt marked "914"....	913. 33
McCandless siding, 90 feet east of crossing of road, 1 foot north of fence line, on south side of road; iron post stamped "933".....	931. 726
McCandless siding, 1 mile south of, at southwest corner of cattle guard, on south side of road crossing track; copper nail marked "961".....	960. 06
McCandless siding, 2 miles south of, on west side of track, 60 feet south of center of road at crossing; railroad spike in west side of telephone post, marked "987".....	985. 66
McCandless siding, 3 miles south of, at road crossing, north side of road, northwest corner of cattle guard; copper nail marked "1038".....	1, 037. 05

	Feet.
Shubert, 0.5 mile north of, at road crossing, 50 feet west of track, on south side of road, 1 foot east of fence corner; iron post stamped "1061".....	1, 059. 989
Shubert, in front of station; top of rail.....	1, 077. 6
Shubert, 1 mile south of, at road crossing, in southeast corner of cattle guard, on south side of road; copper nail marked "1058".....	1, 056. 52
Shubert, 2.3 miles southwest of, at road crossing, 300 feet east of track, in fence line on north side of road; iron post stamped "1010".....	1, 009. 491
Verdon, 3 miles northeast of, on railway culvert; top of bolt painted white, marked "988".....	987. 14
Verdon, 2 miles northeast of, at road crossing, on northwest corner of railway culvert; bolt painted, marked "968".....	967. 23
Verdon, 1 mile northeast of, 15 feet north of Chicago, Burlington & Quincy R. R. track, at road crossing, on west side of road; railroad spike in telephone pole marked "957".....	955. 84
Verdon, 300 feet north of railroad junction, 100 feet west of track, at road crossing, on south side of road, at fence corner where road turns to north; iron post stamped "935 Prim. Trav. Sta. No. 16, 1913".....	933. 663
Verdon, 1.8 miles north of, north side of road crossing on Missouri Pacific Ry., on southwest corner of culvert, marked "949".....	948. 31
Stella, 4.2 miles south of, on culvert; copper washer about on level with rail, marked "948".....	947. 08
Stella, 3.1 miles south of, at road crossing, on south side of road, 30 feet east of track; 1 foot north of fence; iron post stamped "967".....	965. 877
Stella, 2.1 miles south of, on culvert, on southeast corner of bridge; top of bolt painted white, marked "959".....	958. 14
Stella, 1 mile south of, 200 feet north of road crossing; copper nail in southwest corner of railroad culvert, marked "965".....	964. 01
Stella, 0.3 mile north of station, at road crossing, east side of track, south side of road, at corner of right of way; iron post stamped "974".....	972. 831
Howe, 5.4 miles south of, 20 feet north of road crossing; copper nail on timber supporting northwest corner of culvert, marked "980".....	978. 63
Howe, 4.7 miles south of, at road crossing, 60 feet south of track, on west side of road, 2 feet outside of fence; iron post stamped "982".....	981. 371
Howe, 4 miles south of, at road crossing, on south end of bridge, north of road, county line; copper nail on timber, marked "988".....	986. 99
Howe, 2 miles south of, at road crossing, 30 feet east of track, on south side of road, 1 foot south of corner of right of way fence; iron post stamped "1056, Prim. Trav. Sta. No. 4, 1913".....	1, 054. 665
Auburn, 7.1 miles south of, at road crossing, on north side of road, 5 feet west of track; copper nail in culvert, marked "1038".....	1, 036. 94
Auburn, 5.6 miles south of, at road crossing, on east side of track; spike in telephone post, marked "984".....	983. 32
Auburn, 5 miles south of along Missouri Pacific Ry., at road crossing, 30 feet west of track, on south side of road, 1 foot north of fence line; iron post stamped "969".....	967. 927
Auburn, 4 miles south of, at road crossing, north side of road, 30 feet east of track; spike in telephone post, marked "975".....	973. 74

From McCandless east 5.5 miles, thence south along highways to Preston, thence east to Nemaha River.

McCandless siding, 0.5 mile east of, at road crossing, 45 feet southeast of section corner; copper nail in root of box-elder tree, marked "1027"....	1, 026. 07
McCandless siding, 1.5 miles east of, along public highway, at road corners, at northeast fence corner; railway spike in pole, marked "1016".....	1, 015. 12

McCandless siding, 3 miles east by 0.5 mile south of, on road to St. Deroin, south side of road, on west side of creek; copper nail in tree, marked "920".....	Feet. 918. 94
McCandless siding, 3.25 miles east by 0.5 mile south of, at T road, 60 feet north of center of east-west road; copper nail in tree, marked "965"....	963. 53
T. 4 N., R. 16 E., quarter corner of sec. 27, at forks of road; copper nail in root of willow tree, painted "984.5".....	983. 51
T. 4 N., R. 16 E., quarter corner between secs. 26 and 27, at forks of road; spike in top of stump, marked "967.3".....	966. 34
T. 4 N., R. 16 E., corner of secs. 26, 27, 34, and 35, 50 feet southwest of, at T road, 2 feet east of corner of fence; iron post stamped "916".....	915. 191
T. 4 N., R. 16 E., quarter corner between secs. 34 and 35, on bridge over large hollow, marked "925.3".....	924. 38
Tps. 3 and 4 N., R. 16 E., corner of secs. 2, 3, 34, and 35, 50 feet southwest of center of crossroads, in root of 2-foot elm tree; copper nail marked "957.6".....	956. 61
T. 3 N., R. 16 E., 100 feet west of corner of secs. 2, 3, 10, and 11, 150 feet northwest of schoolhouse; copper nail in root of ash tree, marked "963.4".....	962. 43
T. 3 N., R. 16 E., quarter corner between secs. 10 and 11, 300 feet south of house, on post, marked "1009.6".....	1, 008. 63
T. 3 N., R. 16 E., corner of secs. 10, 11, 14, and 15, 50 feet southwest of center of crossroads, 2 feet west of fence corner; iron post stamped "1022".....	1, 020. 993
T. 3 N., R. 16 E., corner of secs. 14, 15, 22, and 23, at forks of road; spike in base of telephone pole, marked "1079.2".....	1, 078. 30
T. 3 N., R. 16 E., quarter corner between secs. 22 and 23; marked "1134.4".....	1, 133. 50
T. 3 N., R. 16 E., corner of secs. 22, 23, 26, and 27, 75 feet northeast of center of crossroads; copper nail in root of hedge stump, marked "1162.4".....	1, 161. 50
T. 3 N., R. 16 E., quarter corner between secs. 26 and 27; telephone pole west of road, marked "1172.4".....	1, 171. 51
T. 3 N., R. 16 E., corner of secs. 26, 27, 34, and 35, 75 feet southwest of center of crossroads, in clump of large walnut trees, 2 feet northeast of fence corner; iron post stamped "1106".....	1, 104. 507
T. 3 N., R. 16 E., quarter corner between secs. 34 and 35, east of road, painted "1089.7".....	1, 088. 74
Tps. 2 and 3 N., R. 16 E., corner of secs. 2, 3, 34, and 35, forks of road; railroad spike in base of telephone pole, painted "T. B. M. 1102.5".....	1, 101. 60
T. 2 N., R. 16 E., quarter corner between secs. 2 and 3, at top of ridge, at white house; spike in top of post, marked "1124.3".....	1, 123. 35
T. 2 N., R. 16 E., corner of secs. 2, 3, 10, and 11, at forks of road; spike in base of telephone pole, painted "U. S. T. B. M. 1054.8".....	1, 053. 92
T. 2 N., R. 16 E., quarter corner between secs. 10 and 11, on post at white house, marked "1045.5".....	1, 044. 62
T. 2 N., R. 16 E., corner of secs. 10, 11, 14, and 15, 75 feet northwest of center of road, at end of hedge fence; iron post stamped "1048".....	1, 047. 321
T. 2 N., R. 16 E., quarter corner between secs. 11 and 14, on post, marked "1078.9".....	1, 078. 01
T. 2 N., R. 16 E., corner of secs. 11, 12, 13, and 14, 60 feet northeast of center of crossroads; copper nail in root of elm tree, painted "T. B. M. 1073.2".....	1, 072. 31
T. 2 N., R. 16 E., quarter corner between secs. 12 and 13, on gate post at white house, marked "1039".....	1, 038. 09

T. 2 N., Rs. 16 and 17 E., corner of secs. 12, 13, 7, and 18, at crossroads; spike in base of telephone pole, painted "U. S. T. B. M. 1008".....	Feet. 1,007.05
T. 2 N., R. 17 E., corner of secs. 7, 8, 17, and 18, 100 feet northwest of center of crossroads, 3 feet east of corner of fence, 200 feet northwest of Ed. Buckholz's residence; iron post stamped "1027".....	1,026.464
T. 2 N., R. 17 E., corner of secs. 8, 9, 16, and 17, 75 feet south of center of crossroads, 250 feet north of Arago store; 6-inch bolt in southwest side of telephone pole, painted "T. B. M. 1080.1".....	1,079.20
T. 2 N., R. 17 E., corner of secs. 17, 18, 19, and 20, at crossroads, in base of telephone pole; painted "U. S. T. B. M.".....	1,053.10
T. 2 N., R. 17 E., corner of secs. 20, 21, 28, and 29, 100 feet northwest of center of crossroads, 2 feet south of corner of wire fence; iron post stamped "981".....	980.126
T. 2 N., R. 17 E., corner of secs. 28, 29, 32, and 33, at crossroads; 6-inch bolt in base of telephone pole, painted "U. S. T. B. M. 1050.2".....	1,049.34
Tps. 1 and 2 N., R. 17 E., corner of secs. 32, 33, 4, and 5, 100 feet north of center of crossroads; 6-inch bolt in root of mulberry tree, painted "U. S. T. B. M. 1017.6".....	1,016.74
T. 1 N., R. 17 E., corner of secs. 4, 5, 8, and 9, at end of hedge fence, 300 feet northeast of yellow house, 60 feet northeast of center of crossroads; iron post stamped "975".....	974.008
T. 1 N., R. 17 E., 75 feet northeast of corner of secs. 8, 9, 16, and 17, 400 feet west of watermill; copper nail in root of large elm tree, painted "U. S. T. B. M. 894".....	893.14
Preston, 0.8 mile north of, on west side of road, 50 feet south of private road, 900 feet south of culvert; 6-inch bolt in northwest corner of telephone pole, painted "U. S. T. B. M. 872.4".....	871.57
Preston, 1,000 feet east of station, 60 feet northwest of road crossing on railroad, 200 feet north of center of crossroads, 60 feet southeast of white house, at corner of fence; iron post stamped "881".....	879.899
Preston, 1.5 miles east of, on northwest end of railroad bridge crossing Nemaha River, north of track, on northeast corner of cement abutment, painted "U. S. T. B. M. 886".....	885.08

From Preston south to State line road.

Preston, 0.5 mile south of, southwest corner of crossroads; copper nail in base of telephone pole, painted "U. S. T. B. M. 962".....	961.18
Preston, 1.5 miles south of; northwest corner of crossroads; copper nail in root of maple tree, painted "U. S. T. B. M. 1023".....	1,022.28
Preston, 2.5 miles south by 0.3 mile west of, south foundation wall of barn on farm of Mr. Ingold, 250 feet north of State line road, in limestone; bronze tablet stamped "1028, Prim. Trav. Sta. No. 22, Nebr. 1913"....	1,027.085

From State line road north along highway and Chicago, Burlington & Quincy R. R. to Verdon.

Salem, 5 miles south by 0.5 mile east of, 1,200 feet east of T road north, 200 feet north of State line road, on Amos Thompson's farm, 8 feet from southwest corner of barn, in west foundation wall, 1.5 feet above ground, in limestone; bronze tablet stamped "1102, Prim. Trav. Sta. No. 19, Nebr. 1913".....	1,101.285
Salem, 4 miles south by 0.5 mile east of, southwest corner of crossroads, at corner of picket fence; copper nail in base of telephone pole.....	1,139.91

Salem, 3 miles south by 0.5 mile east of, northwest corner of crossroads; copper nail in base of telephone pole.....	Feet. 1, 109.82
Salem, 2 miles south by 0.5 mile east of, southeast corner of T road east; copper nail in base of telephone pole, painted "1009".....	1, 008.04
Salem, 0.7 mile south by 0.5 mile east of, west end of center plank of floor of bridge over drainage ditch; copper nail, painted "U. S. T. B. M. 914".....	913.55
Salem, 0.4 mile south of, west end of stone abutment to north end of steel wagon bridge over South Fork of Nemaha River; bronze tablet stamped "915, Prim. Trav. Sta. No. 18, Nebr. 1913".....	914.376
Salem, on main line of Chicago, Burlington & Quincy R. R., in front of semaphore; top of rail.....	916.3
Salem, 0.4 mile northwest of station, between main track and Nebraska City line track; spike in base of whistle post, painted "917".....	916.03
Verdon, 3.3 miles south of, 60 feet northeast of road crossing, 40 feet north of road, 10 feet north of fence corner, in limestone flush with ground; bronze tablet stamped "938, Prim. Trav. Sta. No. 17, Nebr. 1913".....	937.985
Verdon, 2.3 miles south of, 40 feet southeast of road crossing, 30 feet south of road; spike in telephone pole, painted "U. S. T. B. M. 978".....	977.56
Verdon, 1.3 miles south of, southwest corner of railroad bridge over wagon road and drain; $\frac{3}{4}$ -inch bolt head, painted "U. S. T. B. M. 971".....	970.02
Muddy Creek, on steel bridge over; top of rail.....	936.7
Verdon, 300 feet north of railroad junction, 100 feet west of track at road crossing, on south side of road, at fence corner where road turns to north; iron post stamped "935, Prim. Trav. Sta. No. 16, Nebr. 1913".....	933.663

From Verdon southeast along Missouri Pacific Ry. to Falls City, thence east along Chicago, Burlington & Quincy R. R. to Preston.

Verdon, intersection of Missouri Pacific and Chicago, Burlington & Quincy railroads; top of rail.....	934.5
Verdon, at Missouri Pacific Ry. station, in front of semaphore; top of rail..	932.7
Verdon, 0.5 mile south by 0.5 mile east of, 30 feet east of north-south road crossing; spike in telephone pole, painted "T. B. M. 927".....	927.07
Verdon, 1.3 miles south by 1.4 miles east of, 40 feet southeast of east-west road crossing, at southeast end of cattle guard; copper washer in center of tie, painted "U. S. T. B. M. 922".....	922.11
Verdon, 1.7 miles south by 2.4 miles east of, 50 feet northeast of road crossing, 40 feet east of north-south road, at fence corner, in limestone flush with ground; bronze tablet stamped "919".....	918.685
Straussville, 1 mile north by 1 mile west of, 60 feet northwest of road crossing, at end of cattle guard; copper nail in tie, painted "U. S. T. B. M. 913".....	913.08
Muddy Creek, at center of steel bridge over; top of rail.....	914.8
Straussville station, in front of semaphore; top of rail.....	907.9
Straussville, 600 feet south of station, 60 feet west of main track, 50 feet north of grain elevator, in southeast corner of stone foundation of grain office; bronze tablet stamped "911".....	910.515
Straussville, 1.5 miles southeast of, 30 feet northwest of east-west road crossing, 20 feet north of road; spike in telephone pole, painted "T. B. M. 992".....	991.28
Falls City, 2 miles northwest of, 30 feet southeast of east-west road crossing, under cattle guard; copper nail in center of tie, painted "U. S. T. B. M. 1004".....	1, 003.66

Falls City, 1 mile north by 0.5 mile west of Missouri Pacific Ry. station, 75 feet west of road crossing, 30 feet north of road; spike in telephone pole, painted "U. S. T. B. M. 947".....	Feet. 946. 42
Falls City, opposite semaphore; top of inside rail.....	903. 3
Falls City, 150 feet southeast of Missouri Pacific Ry. station, 60 feet south of road, northwest corner of concrete foundation to grain elevator; bronze tablet not stamped.....	905. 144
Falls City, intersection of Missouri Pacific and Chicago, Burlington & Quincy main tracks.....	899. 3
Falls City, at Chicago, Burlington & Quincy station, opposite semaphore; top of south rail.....	902. 21
Falls City, 1 mile east of, 50 feet west of road crossing, 150 feet northeast of slaughter pens, southwest corner of bridge; painted $\frac{1}{2}$ -inch bolt with washer, painted "U. S. T. B. M. 900".....	900. 08
Falls City, 2 miles east by 2 miles south of, 15 feet east of track, at Pierson's Point curve, 40 feet north of small drain, 250 feet east of Great Nemaha River, 400 feet south of signboard, 1.6 feet below track, in face of limestone ledge; bronze tablet not stamped.....	893. 213
Falls City, 2 miles south by 2.5 miles east of, 30 feet southwest of road crossing, 10 feet west of road; spike in base of telephone pole, painted "T. B. M. 886".....	885. 78
Preston, 1.5 miles west of, plate-girder bridge over Great Nemaha River, south end of concrete abutment to west end of bridge; chiseled cross painted "T. B. M. 886".....	885. 70
Preston, opposite semaphore at station; top of rail.....	879. 7
Preston, 1,000 feet east of station, 60 feet northwest of road crossing, 200 feet north of center of crossroads, 60 feet southeast of white house, at corner of fence; iron post stamped "881, Prim. Trav. Sta. No. 23, Nebr. 1913".....	879. 899

From Howe along highways southwest and north to Talmage.

Howe, 3 miles south of, 125 feet south of road crossing, 150 feet southeast of crossroads, middle pier of trestle, east side of track; copper nail painted "T. B. M. 1011".....	1,011. 07
Howe, 3 miles south by 1 mile west of, 80 feet west of crossroads, 20 feet north of road, 200 feet south of white house; copper nail in base of tree, painted "1064".....	1,063. 31
Howe, 4 miles south by 1 mile west of, 30 feet northeast of T road west, 40 feet north of end of hedge; copper nail in base of telephone pole, painted "U. S. T. B. M. 996".....	995. 76
Howe, 4 miles south by 2 miles west of, 30 feet northwest of crossroads, at corner of fence; copper nail in base of telephone pole, painted "U. S. T. B. M. 1039".....	1,038. 47
Howe, 4 miles south by 3 miles west of, northeast corner of crossroads, 25 feet north of county-line road, 4 feet southeast of corner post; iron post stamped "1082, Prim. Trav. Sta. No. 5, Nebr. 1913".....	1,081. 845
Howe, 4 miles south by 4 miles west of, 60 feet west of T road north, 20 feet north of county line road; copper nail in root of cottonwood tree, painted "T. B. M. 1072".....	1,071. 97
Howe, 4 miles south by 5 miles west of, 50 feet west of crossroads, south retaining wall to culvert; copper nail in top of pile, painted "U. S. T. B. M. 1115".....	1,115. 14

Howe, 4 miles south by 6 miles west of, northwest corner of crossroads, at Pleasant View M. E. Church, 5 feet southeast of corner of hedge; iron post stamped "1162, Prim. Trav. Sta. No. 6, Nebr. 1913"	Feet. 1, 162. 173
Howe, 4 miles south by 7 miles west of, northeast corner of crossroads, at base of corner post; chiseled cross in concrete, painted "U. S. T. B. M. 1200"	1, 200. 20
Howe, 4 miles south by 8 miles west of, northeast corner of crossroads, 12 feet east of corner post, in top of stump; copper nail, painted on telephone pole "1181 U. S."	1, 180. 52
Howe, 4 miles south by 9 miles west of, northwest corner of crossroads, 3 feet south of hickory tree, 20 feet north of county-line road; iron post stamped "1125, Prim. Trav. Sta. No. 7, Nebr. 1913"	1, 124. 315
Johnson, 0.5 mile east by 9 miles south of, southwest corner of crossroads, 2 feet south of corner post; painted cross on top of large Sioux quartzite boulder, painted "T. B. M. 1179"	1, 178. 46
Johnson, 0.5 mile east by 8 miles south of, southwest corner of crossroads; copper nail in base of hedge post, painted "T. B. M. 1208"	1, 208. 14
Johnson, 0.5 mile east by 7 miles south of, southwest corner of crossroads, 6 feet south of corner post, 2 feet east of fence; iron post stamped "1190, Prim. Trav. Sta. No. 8, Nebr. 1913"	1, 189. 371
Johnson, 0.5 mile east by 6 miles south of, southeast corner of crossroads; copper nail in base of corner post, painted "T. B. M. 1184"	1, 184. 29
Johnson, 0.5 mile east by 5 miles south of, 20 feet west of crossroads, north end of wooden culvert; copper nail in top of culvert, painted "1140 T. B. M."	1, 139. 31
Johnson, 0.5 mile east by 4 miles south of, northeast corner of T road north, 20 feet north of township-line road, 4 feet north of corner post; iron post stamped "1116, Prim. Trav. Sta. No. 9, Nebr. 1913"	1, 115. 304
Johnson, 0.5 mile east by 3 miles south of, 250 feet north of crossroads, northwest wing of concrete abutment to bridge, 6 feet west of road; chiseled cross in concrete, painted "1150 U. S. T. B. M."	1, 149. 34
Johnson, 0.5 mile east by 2 miles south of, 200 feet north of crossroads, east side of wooden bridge; copper nail in plank painted "1106 U. S. T. B. M."	1, 105. 95
Johnson, 0.5 mile east by 1 mile south of, southeast corner of crossroads, 25 feet south of road, 2 feet west of fence corner; iron post stamped "1168, Prim. Trav. Sta. No. 10, Nebr. 1913"	1, 167. 369
Johnson, 0.5 mile east of, northwest corner of crossroads, at corner of orchard fence; copper nail in base of telephone pole, painted "1223 T. B. M."	1, 222. 47
Johnson, 0.5 mile east by 1 mile north of, southeast corner of crossroads, wooden guard to end of culvert; copper nail in top of cedar post, painted "1162 U. S. T. B. M."	1, 161. 71
Johnson, 0.5 mile east by 2 miles north of, northeast corner of crossroads, 4 feet east of fence corner, 2 feet west of willow tree; copper nail in top of willow stump, painted "1127 T. B. M."	1, 126. 93
Johnson, 0.5 mile east by 3 miles north of, 50 feet southeast of crossroads, 3 feet southwest of fence corner, 180 feet north of bridge; iron post stamped "1049, Prim. Trav. Sta. No. 11, Nebr. 1913"	1, 048. 993
Johnson, 0.5 mile east by 4 miles north of, northeast corner of crossroads, at corner of hedge; copper nail in lowest limb of hedge tree, painted "1069 U. S. T. B. M."	1, 069. 08
Johnson, 0.5 mile east by 5 miles north of, 40 feet southeast of crossroads, 4 feet southwest of fence corner; iron post stamped "1044, Prim. Trav. Sta. No. 12, Nebr. 1913"	1, 043. 353

Johnson, 0.5 mile east by 6 miles north of, northwest corner of T road west, 50 feet north of end of hedge, at fence corner; copper nail in base of post, painted "1025 T. B. M.".....	Feet. 1, 024. 098
Johnson, 0.5 mile east by 7 miles north of, 250 feet north of crossroads, 50 feet northwest of road crossing on Missouri Pacific Ry., at northwest end of cattle guard; copper nail in tile, painted "967 T. B. M.".....	965. 74
Talmage, 1.1 miles southeast of, 50 feet northeast of road crossing, 30 feet north of county-line road, 10 feet south of drainage ditch; iron post stamped "Prim. Trav. Sta. No. 5, Nebr. 1905, 968".....	967. 181
Talmage, opposite semaphore at station; top of inner rail.....	973. 0
Talmage, 0.5 mile northwest of, 100 feet northwest of Crete Branch Junction, 50 feet southeast of road crossing, northwest end of cattle guard; copper nail in center of cattle guard.....	979. 48
Talmage, 1.7 miles northwest of, 30 feet southeast of road crossing, at northwest end of railroad bridge; copper nail in center of tie.....	990. 22
T. 7 N., R. 12 E., northwest corner of sec. 23, 20 feet east by 2 feet south of southeast corner of road crossing; iron post stamped "982 Omaha"....	980. 442

RULO QUADRANGLE.

[Latitude 40°-40° 15'; longitude 95° 15'-95° 30'.]

From Nemaha River east along Burlington & Missouri River R. R. to Rulo.

Preston, 2.2 miles east of, 300 feet east of railroad cut, 250 feet east of hollow, 30 feet north of track; railroad spike in northwest side of telephone pole, painted "U. S. T. B. M. 904.1".....	903. 25
T. 1 N., R. 17 E., corner of secs. 13, 14, 23, and 24, 50 feet south of road crossing, 150 feet south of section corner, 12 feet south of warning post; iron post stamped "917".....	916. 388
Rulo, 1.2 miles west of, 100 feet west of road crossing railroad, 300 feet north of house; six-inch bolt in north side of large telegraph pole, painted "U. S. T. B. M. 940.2".....	939. 26
Rulo, 1,000 feet west of station, 100 feet northwest of road crossing, 30 feet north of track; spike in south side of telegraph pole, painted "U. S. T. B. M. 926.4".....	925. 48
Rulo, in west pier of railroad bridge, in west side of granite pier, in second course of masonry above ground, in fourth block from north end and third block from south end of pier, 0.3 foot below top of block, 1.8 feet from south and 1.5 feet from north end, marked "U. S. P. B. M. 864;" bolt (U. S. C. E. p. b. m.).....	863. 072

HIAWATHA QUADRANGLE.

[Latitude 39° 30'-40°; longitude 95° 30'-96°.]

From point near Preston west along State line road to point near Salem (partly in Kansas).

Preston, 2.5 miles south by 1 mile west of, northwest corner of T road north; copper nail in base of telephone pole, painted "U. S. T. B. M. 938"....	937. 50
Preston, 2.5 miles south by 2 miles west of, northwest corner of T road north; copper nail in base of hedge post, painted "U. S. T. B. M. 973".....	971. 79
Preston, 2.5 miles south by 2.5 miles west of, Missouri Pacific R. R. on State line; top of rail.....	893. 8
Preston, 2.5 miles south by 3.3 miles west of, north side of State line road at T road south; copper nail in hedge post beside telephone pole, painted "U. S. T. B. M. 940".....	939. 71

Falls City, 4 miles south of, 800 feet west of T road north, 30 feet south of State line road, at Fred Zorn's residence, in base of limestone hitching post; bronze tablet stamped "1027 Prim. Trav. Sta. No. 21, Nebr. 1913".	Feet. 1, 025. 978
Falls City, 4 miles south by 1 mile west of, at T road north, 50' south of State line road; chiseled X on base of stone hitching post.....	1, 031. 09
Falls City, 4 miles south by 2 miles west of, 140 feet west of T road north, 20 feet south of State line road; copper nail in root of elm tree.....	935. 47
Falls City, 4 miles south by 3 miles west of, 500 feet west of T road north, 150 feet southwest of William Boothe's residence, 30 feet north of State line road, in base of stone gatepost; bronze tablet stamped "999, Prim. Trav. Sta. No. 20, Nebr. 1913".....	998. 158
Falls City, 4 miles south by 4 miles west of, northeast corner of T road north; copper nail in base of telephone pole.....	1, 053. 71
Salem, 5 miles south by 1.5 miles east of, at T road south, 10 feet north of State line road; copper nail in base of telephone pole.....	1, 054. 75

Browns Creek, Chappell, Gothenburg, North Platte, Ogalalla, Paxton, and Sidney quadrangles.

ARTHUR, CHEYENNE, DAWSON, DEUEL, FRONTIER, KEITH, LINCOLN, LOGAN, AND McPHERSON COUNTIES.

The elevations in the following list are only approximate, as they depend on the height of the Union Pacific R. R. bridge over Lodgepole Creek, near milepost 410. The railroad company's elevation of the bridge, derived from Omaha datum, is 4,016.12 feet.

The leveling in the Browns Creek quadrangle and in part of the Sidney quadrangle was done by H. M. Trippe in 1896; that in the Chappell and Ogalalla quadrangles and in the remainder of the Sidney quadrangle by Ross C. Cornish in 1897; that in the Paxton quadrangle by C. E. Hewitt in 1898; and that in the North Platte and Gothenburg quadrangles by E. E. Sands in 1899.

SIDNEY QUADRANGLE.

[Latitude 41°-41° 30'; longitude 102° 30'-103°.]

Near public-land corners.

T. 13 N., R. 45 W., southeast corner of sec. 30; iron post stamped "Sidney 3897".....	Feet. 3, 897. 384
T. 13 N., R. 46 W., southeast corner of sec. 2; iron post stamped "Sidney 3757".....	3, 757. 233
T. 13 N., R. 46 W., southeast corner of sec. 27; iron post stamped "Sidney 3983".....	3, 982. 950
T. 13 N., R. 47 W., southeast corner of sec. 25; iron post stamped "Sidney 4078".....	4, 077. 901
T. 13 N., R. 47 W., southeast corner of sec. 33; iron post stamped "Sidney 4117".....	4, 117. 222
T. 13 N., R. 48 W., southeast corner of sec. 25; iron post stamped "Sidney 4131".....	4, 131. 229
T. 13 N., R. 48 W., southeast corner of sec. 34; iron post stamped "Sidney 4167".....	4, 167. 252
T. 13 N., R. 48 W., southeast corner of sec. 22; iron post stamped "Sidney 4162".....	4, 162. 220

T. 13 N., R. 48 W., northeast corner of sec. 3; iron post stamped "Sidney 4013".....	Feet. 4, 013. 457
Lodgepole, T. 14 N., R. 46 W., sec. 30, stone monument in park; bronze tablet stamped "Sidney 3833".....	3, 832. 755
T. 14 N., R. 47 W., southeast corner of sec. 12; iron post stamped "Sidney 4011".....	4, 011. 418
T. 14 N., R. 47 W., west side of sec. 27, on main line of Union Pacific R. R.; iron post stamped "Sidney 3878".....	3, 878. 088
T. 14 N., R. 47 W., sec. 30, near milepost 403, Sunol switch; iron post stamped "Sidney 3921".....	3, 921. 025
T. 15 N., R. 47 W., southeast corner of sec. 26; iron post stamped "Sidney 3913".....	3, 913. 356
T. 15 N., R. 47 W., southeast corner of sec. 28; iron post stamped "Sidney 3960".....	3, 960. 192
T. 15 N., R. 46 W., southwest corner of sec. 27; iron post stamped "Sidney 3928".....	3, 928. 099
T. 15 N., R. 46 W., southeast corner of sec. 25; iron post stamped "Sidney 3896".....	3, 896. 123
T. 15 N., R. 46 W., quarter corner on east side of sec. 13; iron post stamped "Sidney 3885".....	3, 884. 953
T. 16 N., R. 46 W., southeast corner of sec. 36; iron post stamped "Sidney 3933".....	3, 933. 187
T. 13 N., R. 49 W., southeast corner of sec. 7; iron post stamped "4284".....	4, 284. 262
T. 13 N., R. 49 W., southeast corner of sec. 30; iron post stamped "4288".....	4, 288. 272
T. 13 N., R. 49 W., southeast corner of sec. 36; iron post stamped "4233".....	4, 233. 829
Sidney, T. 14 N., R. 49 W., Union Pacific R. R. station; doorsill of ladies' waiting room.....	4, 093. 540
Fort Sidney, T. 14 N., R. 49 W., in astronomical monument in parade ground; copper bolt stamped "4086".....	4, 086. 279
T. 14 N., R. 49 W., near southwest corner of sec. 25; iron post stamped "4025".....	4, 025. 083
T. 14 N., R. 48 W., sec. 29, northwest corner stone in foundation of schoolhouse; copper bolt stamped "4015".....	4, 015. 395
T. 14 N., R. 48 W., southeast corner of sec. 7; iron post stamped "4165".....	4, 165. 415
T. 15 N., R. 49 W., sec. 28; iron post stamped "4226".....	4, 226. 447
T. 15 N., R. 49 W., southeast corner of sec. 13; iron post stamped "4190".....	4, 189. 761
T. 15 N., R. 48 W., southeast corner of sec. 6; iron post stamped "4163".....	4, 162. 851
T. 16 N., R. 49 W., southeast corner of sec. 26; iron post stamped "4194".....	4, 194. 088
T. 16 N., R. 48 W., northwest corner of sec. 26, in wall of schoolhouse; bronze tablet stamped "4122".....	4, 121. 645
T. 16 N., R. 48 W., southeast corner of sec. 11; iron post stamped "4109".....	4, 108. 898
T. 16 N., R. 47 W., southeast corner of sec. 8; iron post stamped "4030".....	4, 030. 328
T. 16 N., R. 47 W., southwest corner of sec. 12; iron post stamped "3993".....	3, 992. 736
T. 17 N., R. 49 W., southeast corner of sec. 32; iron post stamped "4281".....	4, 280. 795
T. 17 N., R. 49 W., southeast corner of sec. 36; iron post stamped "4202".....	4, 202. 643
T. 17 N., R. 48 W., southeast corner of sec. 21; iron post stamped "4145".....	4, 144. 664
T. 17 N., R. 47 W., northwest corner of sec. 30, in southeast corner of schoolhouse; bronze tablet stamped "4101".....	4, 101. 046
T. 17 N., R. 47 W., southeast corner of sec. 31; iron post stamped "4041".....	4, 040. 734
T. 18 N., R. 49 W., sec. 34, North's ranch; iron post stamped "3898".....	3, 897. 670
T. 18 N., R. 48 W., sec. 26, Radcliffe's ranch; iron post stamped "3728".....	3, 728. 256
T. 18 N., R. 46 W., sec. 31, Hanna's ranch; iron post stamped "3509".....	3, 509. 253
T. 17 N., R. 46 W., NW. $\frac{1}{4}$ sec. 4, north side of river road; iron post stamped "3542".....	3, 541. 944

T. 17 N., R. 46 W., near center of sec. 12, at crossroads; iron post stamped "3477"	Feet. 3, 476. 839
T. 17 N., R. 45 W., near northeast corner of sec. 30, at gate on road; iron post stamped "3504"	3, 503. 667
T. 16 N., R. 46 W., near southeast corner of sec. 2, at forks of road; iron post stamped "3608"	3, 608. 215
T. 16 N., R. 46 W., near east side of sec. 27, at gate on road; iron post stamped "3689"	3, 688. 629

BROWNS CREEK QUADRANGLE.

[Latitude 41° 30'-42°; longitude 102° 30'-103°.]

Near public-land corners.

T. 18 N., R. 49 W., southeast corner of SW. $\frac{1}{4}$ sec. 3; iron post stamped "3699"	3, 698. 789
T. 18 N., R. 48 W., near northwest corner of sec. 11, on river road; iron post stamped "3564"	3, 564. 177
T. 18 N., R. 47 W., east side of sec. 19, southeast corner of Nichol's house; tablet stamped "3613"	3, 612. 762
T. 18 N., R. 47 W., NE. $\frac{1}{4}$ sec. 5, Ramsburg's ranch; iron post stamped "3545"	3, 544. 951
Belmont, near northeast corner of sec. 18, T. 19 N., R. 49 W.; iron post stamped "3638"	3, 638. 225
T. 19 N., R. 49 W., southeast corner of NE. $\frac{1}{4}$ sec. 14 (Bearline's ranch); iron post stamped "3613"	3, 613. 211
T. 19 N., R. 49 W., southeast corner of sec. 30; iron post stamped "3596" ..	3, 596. 147
T. 19 N., R. 48 W., south side of sec. 27, Carl Wagner's ranch; iron post stamped "3577"	3, 577. 259
T. 19 N., R. 47 W., near southwest corner of sec. 16, 3.25 miles north of Remsburg's ranch, forks of road; iron post stamped "4044"	4, 044. 274
T. 19 N., R. 47 W., southeast corner of NE. $\frac{1}{4}$ sec. 25; iron post stamped "4025"	4, 024. 604
T. 20 N., R. 49 W., southwest corner of sec. 32; iron post stamped "3689" ..	3, 689. 198
T. 20 N., R. 49 W., southeast corner of sec. 36; iron post stamped "3727" ..	3, 727. 331
T. 20 N., R. 48 W., NW. $\frac{1}{4}$ sec. 19, Delano's ranch; iron post stamped "3902"	3, 902. 152
T. 20 N., R. 47 W., SW. $\frac{1}{4}$ sec. 7, at crossroads; iron post stamped "4239" ..	4, 238. 846
T. 20 N., R. 47 W., sec. 32, at side of road, between Remsburg's and Hibler's ranches; iron post stamped "4099"	4, 099. 361
T. 21 N., R. 49 W., near north side of sec. 12, crossroads; iron post stamped "4135"	4, 134. 906
T. 21 N., R. 49 W., near north side of sec. 26, forks of road; iron post stamped "4370"	4, 370. 150
T. 21 N., R. 48 W., sec. 9, Peer's ranch; iron post stamped "4041"	4, 040. 543
T. 21 N., R. 48 W., sec. 13, Haine's ranch; iron post stamped "4018"	4, 017. 769
T. 21 N., R. 47 W., SW. $\frac{1}{4}$ sec. 4 (error in General Land Office work; this should be SW. $\frac{1}{4}$ sec. 3), J. W. Rodger's ranch; iron post stamped "3946" ..	3, 945. 612
T. 21 N., R. 47 W., southwest corner of sec. 28, Hibler's ranch; iron post stamped "3989"	3, 988. 979
T. 21 N., R. 46 W., sec. 8, Margesson's ranch; iron post stamped "3897" ..	3, 896. 956
T. 22 N., R. 49 W., beside Alliance road, near north side of sec. 2; iron post stamped "4117"	4, 116. 682
T. 22 N., R. 49 W., SE. $\frac{1}{4}$ sec. 27, at forks of road; iron post stamped "4125" ..	4, 124. 45
T. 22 N., R. 48 W., NE. $\frac{1}{4}$ sec. 1, at side of road; iron post stamped "3977" ..	3, 977. 447

T. 22 N., R. 48 W., NE. $\frac{1}{4}$ sec. 27, at forks of road; iron post stamped "4040".....	Feet. 4, 039. 822
T. 22 N., R. 47 W., SE. $\frac{1}{4}$ sec. 21, southwest side of Alliance road; iron post stamped "3955".....	3, 954. 693
T. 22 N., R. 47 W., northeast corner of sec. 1; iron post stamped "3901".....	3, 900. 592
T. 23 N., R. 49 W., near northwest corner of sec. 14, Rall's ranch; iron post stamped "4093".....	4, 092. 374
T. 23 N., R. 49 W., near center of sec. 25, Johnson's ranch; anchor of gate south of house.....	4, 060. 9
T. 23 N., R. 49 W., SE. $\frac{1}{4}$ sec. 12, James's ranch; top of southeast anchor post of windmill tower.....	4, 043
T. 23 N., R. 48 W., sec. 17, Fleet's ranch; iron post stamped "4026".....	4, 026. 143
T. 23 N., R. 48 W., northeast corner of sec. 3; iron post stamped "3969".....	3, 969. 078
T. 23 N., R. 47 W., near southeast corner of sec. 29, 20 feet north of crossroads, 0.8 mile west from Smith's ranch; west anchor of gate.....	3, 966. 9
T. 23 N., R. 47 W., near east side of sec. 28, south side of gate on road from Smith's ranch to Hague's ranch; iron post stamped "3950".....	3, 949. 923
T. 23 N., R. 46 W., sec. 29, at crossroads south of Wild Horse Lake; iron post stamped "3901".....	3, 901. 116
T. 23 N., R. 46 W., near southwest corner of sec. 24, at side of Alliance road; iron post stamped "3890".....	3, 890. 078
T. 23 N., R. 45 W., near east side of sec. 17, Hill's ranch; iron post stamped "3886".....	3, 886. 347
T. 22 N., R. 46 W., SE. $\frac{1}{4}$ sec. 4, at forks of road; iron post stamped "3895".....	3, 895. 482
T. 22 N., R. 46 W., near south line of sec. 13, at forks of road; iron post stamped "3878".....	3, 878. 259
T. 22 N., R. 45 W., near northwest corner of sec. 34, Hubble's ranch; iron post stamped "3856".....	3, 855. 703
T. 21 N., R. 46 W., near center of S. $\frac{1}{2}$ sec. 1, at crossroads; iron post stamped "3865".....	3, 864. 729
T. 21 N., R. 45 W., NW. $\frac{1}{4}$ sec. 29, Orlando post office; iron post stamped "3854".....	3, 854. 115
T. 20 N., R. 46 W., SE. $\frac{1}{4}$ sec. 3, Slater's ranch; iron post stamped "3872".....	3, 872. 398
T. 20 N., R. 46 W., near center of sec. 22; Richardson's ranch; iron post stamped "3866".....	3, 865. 895
T. 20 N., R. 45 W., near center of N. $\frac{1}{2}$ sec. 17, at bend in road southeast of Twin Lakes; iron post stamped "3815".....	3, 814. 691
T. 19 N., R. 46 W., E. $\frac{1}{2}$ sec. 11, in sand hills, at forks of road just south of Blowout; iron post stamped "3881".....	3, 881. 624
T. 19 N., R. 46 W., near center of sec. 23, at side of road; iron post stamped "3948".....	3, 948. 043
T. 19 N., R. 45 W., southeast corner of SW. $\frac{1}{4}$ sec. 31; iron post stamped "3952".....	3, 952. 091
T. 18 N., R. 46 W., NW. $\frac{1}{4}$ sec. 10, south edge of terrace on side of road; iron post stamped "3977".....	3, 977. 165
T. 18 N., R. 45 W., southeast corner of sec. 17; iron post stamped "3935".....	3, 935. 007

CHAPPELL QUADRANGLE.

[Latitude 41°-41° 30'; longitude 102°-102° 30'.]

Near public-land corners.

T. 12 N., R. 45 W., in section 21 on Nebraska-Colorado State line, 0.5 mile west of Lodgepole Creek; iron post stamped "Sidney 3591".....	3, 590. 886
T. 12 N., R. 42 W., sec. 6, milepost 365, Union Pacific R. R.; iron post stamped "Sidney 3413".....	3, 413. 057

	Feet.
T. 13 N., R. 41 W., sec. 27, milepost 357, Union Pacific R. R.; iron post stamped "Sidney 3341".....	3, 340. 735
Bigsprings, southeast corner of sec. 25, T. 13 N., R. 42 W.; iron post stamped "Sidney 3370".....	3, 370. 061
T. 13 N., R. 42 W., southeast corner of sec. 1; iron post stamped "Sidney 3613".....	3, 613. 028
T. 13 N., R. 42 W., quarter corner on south side of sec. 17; iron post stamped "Sidney 3592".....	3, 591. 778
T. 13 N., R. 43 W., quarter corner on south side of sec. 14; iron post stamped "Sidney 3648".....	3, 647. 963
T. 13 N., R. 43 W., southeast corner of sec. 18; iron post stamped "Sidney 3717".....	3, 717. 196
T. 13 N., R. 44 W., southeast corner of sec. 10; iron post stamped "Sidney 3793".....	3, 793. 021
T. 13 N., R. 44 W., sec. 31, milepost 383, Union Pacific R. R.; iron post stamped "Sidney 3636".....	3, 635. 921
Chappell, at railroad station, sec. 15, T. 13 N., R. 45 W.; iron post stamped "Sidney 3696".....	3, 696. 084
T. 14 N., R. 42 W., southeast corner of sec. 13; iron post stamped "Sidney 3652".....	3, 651. 791
T. 14 N., R. 42 W., southeast corner of sec. 3; iron post stamped "Sidney 3694".....	3, 694. 097
T. 14 N., R. 42 W., southeast corner of sec. 6; iron post stamped "Sidney 3723".....	3, 722. 121
T. 14 N., R. 43 W., southeast corner of sec. 10; iron post stamped "Sidney 3764".....	3, 764. 154
T. 14 N., R. 43 W., southeast corner of sec. 7; iron post stamped "Sidney 3768".....	3, 767. 974
T. 14 N., R. 44 W., southeast corner of sec. 27; iron post stamped "Sidney 3804".....	3, 804. 321
T. 14 N., R. 44 W., southeast corner of sec. 10; iron post stamped "Sidney 3796".....	3, 796. 152
T. 14 N., R. 45 W., southeast corner of sec. 2; iron post stamped "Sidney 3874".....	3, 874. 043
T. 14 N., R. 45 W., southeast corner of sec. 5; iron post stamped "Sidney 3916".....	3, 916. 072
T. 15 N., R. 42 W., southeast corner of sec. 36; iron post stamped "Sidney 3739".....	3, 739. 322
T. 15 N., R. 42 W., sec. 26, forks of wagon road; iron post stamped "Sidney 3763".....	3, 763. 153
T. 15 N., R. 42 W., sec. 3, mouth of Ash Hollow, near Rachael Patterson's grave; iron post stamped "Sidney 3314".....	3, 314. 20
T. 15 N., R. 43 W., southeast corner of sec. 27; iron post stamped "Sidney 3729".....	3, 728. 662
T. 15 N., R. 43 W., southeast corner of sec. 30; iron post stamped "Sidney 3833".....	3, 833. 220
T. 15 N., R. 44 W., southeast corner of sec. 27; iron post stamped "Sidney 3792".....	3, 792. 15
T. 15 N., R. 44 W., southeast corner of sec. 30; iron post stamped "Sidney 3829".....	3, 829. 382
T. 15 N., R. 45 W., southeast corner of sec. 27; iron post stamped "Sidney 3923".....	3, 923. 068

T. 16 N., R. 41 W., southeast corner of sec. 30; iron post stamped "Sidney 3309".....	Feet. 3, 308. 466
T. 16 N., R. 42 W., southeast corner of sec. 12; iron post stamped "Sidney 3593".....	3, 592. 772
T. 16 N., R. 42 W., southeast corner of sec. 27; iron post stamped "Sidney 3304".....	3, 304. 008
T. 16 N., R. 42 W., sec. 31, near mouth of ravine; iron post stamped "Sidney 3357".....	3, 356. 959
T. 16 N., R. 43 W., quarter corner on east side of sec. 22; iron post stamped "Sidney 3332".....	3, 331. 748
T. 16 N., R. 43 W., sec. 18, Charles Simpson's ranch; iron post stamped "Sidney 3365".....	3, 364. 230
T. 16 N., R. 44 W., quarter corner on east side of sec. 10; iron post stamped "Sidney 3393".....	3, 392. 674
T. 16 N., R. 44 W., near northeast corner of sec. 5, south bank of North Platte River; iron post stamped "Sidney 3427".....	3, 426. 700
T. 17 N., R. 41 W., southwest corner of sec. 31; iron post stamped "Sidney 3628".....	3, 628. 244
T. 17 N., R. 41 W., near southeast corner of sec. 34, on wagon road; iron post stamped "Sidney 3632".....	3, 631. 775
T. 17 N., R. 42 W., SW. $\frac{1}{4}$ sec. 29, side of wagon road; iron post stamped "Sidney 3643".....	3, 642. 903
T. 17 N., R. 42 W., NE. $\frac{1}{4}$ sec. 18, road crossing; iron post stamped "Sidney 3741".....	3, 740. 829
T. 17 N., R. 43 W., quarter corner on south side of sec. 11; iron post stamped "Sidney 3710".....	3, 709. 258
T. 17 N., R. 43 W., southwest corner of sec. 8; iron post stamped "Sidney 3720".....	3, 719. 491
T. 17 N., R. 44 W., southwest corner of sec. 32; iron post stamped "Sidney 3455".....	3, 455. 088
T. 17 N., R. 44 W., southwest corner of sec. 24; iron post stamped "Sidney 3428".....	3, 427. 794
T. 17 N., R. 44 W., southwest corner of sec. 1; iron post stamped "Sidney 3601".....	3, 600. 520
T. 17 N., R. 45 W., sec. 23, Coumbe's ranch; iron post stamped "Sidney 3423".....	3, 422. 450
Hartmann, sec. 34, T. 18 N., R. 44 W.; iron post stamped "Sidney 3595".....	3, 595. 077

OGALALLA QUADRANGLE.

[Latitude 41°-41° 30'; longitude 101° 30'-102°.]

Near public-land corners.

Ogalalla, railroad station, sec. 6, T. 13 N., R. 38 W.; iron post stamped "Sidney 3216".....	3, 215. 884
T. 13 N., R. 39 W., sec. 11, at Union Pacific R. R. milepost 344; iron post stamped "Sidney 3242".....	3, 242. 138
T. 13 N., R. 39 W., sec. 17; at Union Pacific R. R. milepost 347; iron post stamped "Sidney 3265".....	3, 265. 151
Brule, sec. 15, T. 13 N., R. 40 W.; iron post stamped "Sidney 3291".....	3, 290. 766
T. 13 N., R. 40 W., sec. 19, at Union Pacific R. R. milepost 354; iron post stamped "Sidney 3333".....	3, 333. 172

	Feet.
T. 14 N., R. 39 W., near southeast corner of sec. 13; forks of road; iron post stamped "Sidney 3533"	3, 533. 079
T. 14 N., R. 39 W., quarter corner on east side of sec. 32; iron post stamped "Sidney 3489"	3, 488. 754
T. 14 N., R. 40 W., southeast corner of sec. 14; iron post stamped "Sidney 3653"	3, 653. 213
T. 14 N., R. 40 W., quarter corner on south side of sec. 17; iron post stamped "Sidney 3579"	3, 578. 688
T. 14 N., R. 41 W., southeast corner of sec. 15; iron post stamped "Sidney 3712"	3, 712. 077
T. 15 N., R. 37 W., southeast corner of sec. 31; iron post stamped "Sidney 3107"	3, 106. 813
T. 15 N., R. 37 W., NW. $\frac{1}{4}$ sec. 6; iron post stamped "Sidney 3373"	3, 373. 345
T. 15 N., R. 38 W., NW. $\frac{1}{4}$ sec. 13; iron post stamped "Sidney 3306"	3, 306. 111
T. 15 N., R. 38 W., southeast corner of sec. 30; iron post stamped "Sidney 3146"	3, 145. 921
T. 15 N., R. 39 W., sec. 26, at schoolhouse; iron post stamped "Sidney 3161"	3, 161. 352
T. 15 N., R. 39 W., southeast corner of sec. 20; iron post stamped "Sidney 3184"	3, 183. 873
T. 15 N., R. 40 W., southeast corner of sec. 11; iron post stamped "Sidney 3216"	3, 216. 144
T. 15 N., R. 40 W., sec. 6, at Fairchild's ranch; iron post stamped "Sidney 3233"	3, 233. 232
T. 16 N., R. 37 W., southeast corner of sec. 20, near Mannon's ranch; iron post stamped "Sidney 3435"	3, 435. 088
T. 16 N., R. 37 W., S. $\frac{1}{2}$ sec. 8; iron post stamped "Sidney 3472"	3, 472. 029
T. 16 N., R. 38 W., S. $\frac{1}{2}$ sec. 26, beside wagon road; iron post stamped "Sidney 3430"	3, 430. 175
T. 16 N., R. 38 W., SE. $\frac{1}{4}$ sec. 9, beside wagon road in Wild Horse Valley; iron post stamped "Sidney 3485"	3, 484. 798
T. 16 N., R. 39 W., S. $\frac{1}{2}$ sec. 2, beside wagon road; iron post stamped "Sidney 3520"	3, 520. 056
T. 16 N., R. 39 W., near center of sec. 16, at junction of wagon roads; iron post stamped "Sidney 3523"	3, 523. 032
T. 16 N., R. 40 W., NE. $\frac{1}{4}$ sec. 36, Winslow's ranch; iron post stamped "Sidney 3405"	3, 404. 659
T. 16 N., R. 40 W., southeast corner of sec. 13; iron post stamped "Sidney 3529"	3, 529. 104
T. 17 N., R. 37 W., SW. $\frac{1}{4}$ sec. 27, beside wagon road in valley; iron post stamped "Sidney 3490"	3, 490. 013
T. 17 N., R. 37 W., west side of sec. 10, beside road in valley; iron post stamped "Sidney 3504"	3, 504. 235
T. 17 N., R. 38 W., SE. $\frac{1}{4}$ sec. 29, beside road in valley; iron post stamped "Sidney 3533"	3, 533. 370
T. 17 N., R. 38 W., east side of sec. 6, in small valley; iron post stamped "Sidney 3588"	3, 587. 711
T. 17 N., R. 39 W., NE. $\frac{1}{4}$ sec. 23, at forks of wagon road; iron post stamped "Sidney 3575"	3, 574. 886
T. 17 N., R. 39 W., SE. $\frac{1}{4}$ sec. 4, beside wagon road in valley; iron post stamped "Sidney 3612"	3, 611. 980
T. 17 N., R. 40 W., SE. $\frac{1}{4}$ sec. 36, at north end of valley; iron post stamped "Sidney 3564"	3, 564. 185

PAXTON QUADRANGLE.

[Latitude $41^{\circ}41'30''$; longitude $101^{\circ}101'30''$.]

Near public-land corners.

	Feet.
T. 12 N., R. 36 W., southeast corner of sec. 5; iron post stamped "Sidney 3279"	3, 278. 980
T. 12 N., R. 36 W., southeast corner of sec. 36; iron post stamped "Sidney 3244"	3, 244. 348
T. 12 N., R. 35 W., southeast corner of sec. 12; iron post stamped "Sidney 3203"	3, 202. 947
T. 12 N., R. 34 W., southeast corner of sec. 12; iron post stamped "Sidney 3183"	3, 183. 178
T. 12 N., R. 33 W., near corner of sec. 13; iron post stamped "Sidney 3158"	3, 158. 217
T. 13 N., R. 35 W., southeast corner of sec. 30; iron post stamped "Sidney 3220"	3, 220. 358
T. 13 N., R. 34 W., southeast corner of sec. 30; iron post stamped "Sidney 3166"	3, 166. 122
T. 13 N., R. 33 W., southeast corner of sec. 30; iron post stamped "Sidney 3138"	3, 138. 387
T. 13 N., R. 32 W., southeast corner of sec. 18; iron post stamped "Sidney 3116"	3, 116. 445
T. 13 N., R. 34 W., southeast corner of sec. 7; iron post stamped "Sidney 3114"	3, 113. 978
T. 13 N., R. 33 W., southeast corner of sec. 6; iron post stamped "Sidney 3016"	3, 015. 914
T. 14 N., R. 36 W., near quarter corner on south side of sec. 6; iron post stamped "Sidney 3090"	3, 089. 620
T. 14 N., R. 35 W., near center of sec. 5; iron post stamped "Sidney "3322"	3, 322. 228
T. 14 N., R. 36 W., near center of sec. 24, on south side of North Platte River; iron post stamped "Sidney 3082"	3, 081. 521
T. 14 N., R. 35 W., quarter corner on east side of sec. 30; iron post stamped "Sidney 3067"	3, 067. 224
T. 14 N., R. 34 W., northeast corner of sec. 6; iron post stamped "Sidney 3138"	3, 138. 266
T. 14 N., R. 34 W., northwest corner of sec. 30; iron post stamped "Sidney 3021"	3, 020. 537
T. 14 N., R. 33 W., southeast corner of sec. 17; iron post stamped "Sidney 2989"	2, 989. 402
T. 14 N., R. 34 W., southeast corner of sec. 18; iron post stamped "Sidney 2913"	2, 912. 698
T. 14 N., R. 36 W., sec. 24; south bank of North Platte River in south edge of grove; iron post stamped "Sidney 3032"	3, 031. 521
T. 15 N., R. 36 W., near quarter corner on east side of sec. 6; iron post stamped "Sidney 3421"	3, 420. 600
T. 15 N., R. 36 W., NE. $\frac{1}{4}$ sec. 30; iron post stamped "Sidney 3284"	3, 283. 600
T. 15 N., R. 35 W., near center of sec. 6; iron post stamped "Sidney 3332" ..	3, 331. 566
T. 15 N., R. 35 W., southeast corner of sec. 30; iron post stamped "Sidney 3248"	3, 247. 703
T. 15 N., R. 34 W., SE. $\frac{1}{4}$ sec. 6; iron post stamped "Sidney 3320"	3, 320. 304
T. 15 N., R. 34 W., NE. $\frac{1}{4}$ sec. 19; iron post stamped "Sidney 3291"	3, 291. 146
T. 15 N., R. 33 W., near center of sec. 5; iron post stamped "Sidney 3130" ..	3, 129. 963
T. 15 N., R. 33 W., NE. $\frac{1}{4}$ sec. 20; iron post stamped "Sidney 3129"	3, 128. 815

	Feet.
T. 15 N., R. 33 W., near quarter corner on south side of sec. 32; iron post stamped "Sidney 2992".....	2, 991. 929
T. 15 N., R. 32 W., near southeast corner of sec. 6; iron post stamped "Sidney 3162".....	3, 161. 565
T. 15 N., R. 32 W., near center of sec. 7; iron post stamped "Sidney 3102".....	3, 101. 565
T. 15 N., R. 32 W., near quarter corner on south side of sec. 31; iron post stamped "Sidney 2915".....	2, 915. 289
T. 16 N., R. 36 W., near quarter corner on west side of sec. 20; iron post stamped "Sidney 3464".....	3, 464. 186
T. 16 N., R. 36 W., near southwest corner of sec. 3; iron post stamped "Sidney 3454".....	3, 453. 716
T. 16 N., R. 35 W., near quarter corner on west side of sec. 18; iron post stamped "Sidney 3381".....	3, 380. 548
T. 16 N., R. 34 W., near southeast corner of sec. 7; iron post stamped "Sidney 3314".....	3, 313. 719
T. 16 N., R. 33 W., NW. $\frac{1}{4}$ sec. 18; iron post stamped "Sidney 3148".....	3, 148. 062
T. 16 N., R. 32 W., near quarter corner on east side of sec. 17; iron post stamped "Sidney 3182".....	3, 182. 342
T. 17 N., R. 36 W., NW. $\frac{1}{4}$ sec. 3; iron post stamped "Sidney 3474".....	3, 474. 042
T. 17 N., R. 36 W., near southwest corner of sec. 23; iron post stamped "Sidney 3450".....	3, 449. 628
T. 17 N., R. 35 W., SW. $\frac{1}{4}$ sec. 4; iron post stamped "Sidney 3411".....	3, 410. 538
T. 17 N., R. 35 W., near center of sec. 32; iron post stamped "Sidney 3450".....	3, 449. 760
T. 17 N., R. 34 W., NE. $\frac{1}{4}$ sec. 20; iron post stamped "Sidney 3319".....	3, 318. 592
T. 17 N., R. 34 W., SW. $\frac{1}{4}$ sec. 33; iron post stamped "Sidney 3371".....	3, 371. 066
T. 17 N., R. 34 W., NE. $\frac{1}{4}$ sec. 12; iron post stamped "Sidney 3285".....	3, 285. 013
T. 17 N., R. 33 W., near quarter corner on north side of sec. 4; iron post stamped "Sidney 3262".....	3, 262. 336
T. 17 N., R. 33 W., near center of sec. 1; iron post stamped "Sidney 3236".....	3, 236. 430
T. 17 N., R. 32 W., near northwest corner of sec. 31; iron post stamped "Sidney 3118".....	3, 117. 967
T. 17 N., R. 32 W., near northeast corner of sec. 17; iron post stamped "Sidney 3264".....	3, 263. 853
T. 18 N., R. 35 W., near center of sec. 33; iron post stamped "Sidney 3421".....	3, 421. 241
T. 18 N., R. 34 W., SW. $\frac{1}{4}$ sec. 30; iron post stamped "Sidney 3353".....	3, 352. 535

NORTH PLATTE QUADRANGLE.

[Latitude 41°-41° 30'; longitude 100° 30'-101°.]

From Spuds east along Union Pacific R. R. to Maxwell.

Spuds, east end of stock yards; iron post stamped "Sidney 2852".....	2, 852. 446
North Platte, First National Bank, in foundation of front steps; aluminum tablet stamped "Sidney 2805".....	2, 805. 049
Milepost "287 miles west of Omaha," 0.25 mile west of; iron post stamped "Sidney 2779".....	2, 779. 500
Gannett, at Union Pacific R. R. signpost; iron post stamped "Sidney 2769".....	2, 769. 022
Pawnee, near east end of switch; iron post stamped "Sidney 2747".....	2, 747. 203
Farnam, 1,248.7 feet west of center of bridge 20 and 16.7 feet south at right angles from center of main track, in Depot Park, at west line of Broad Street; iron post stamped "Sidney 2729".....	2, 729. 024
Maxwell, west end of station; iron post stamped "Sidney 2714".....	2, 714. 457

NOTE.—In 1910 permission was granted to move this post to a new location. No record of the transfer has yet been received.

Near public-land corners.

T. 12 N., R. 30 W., SE. $\frac{1}{4}$ sec. 5, on main road south from North Platte; iron post stamped "Sidney 3067".....	Feet. 3, 066. 926
T. 12 N., R. 29 W., sec. 18, west of schoolhouse on main road to North Platte; iron post stamped "Sidney 3056".....	3, 056. 047
T. 12 N., R. 28 W., sec. 5, south end of Platte River bridge; iron post stamped "Sidney 2714".....	2, 714. 485
T. 12 N., R. 31 W., NE. $\frac{1}{4}$ sec. 3; iron post stamped "Sidney 3028".....	3, 028. 230
T. 12 N., R. 29 W., NE. $\frac{1}{4}$ sec. 13, in Boxelder Canyon; iron post stamped "Sidney 2786".....	2, 785. 601
T. 13 N., R. 28 W., north side of sec. 3, on Maxwell wagon road; iron post stamped "Sidney 2888".....	2, 888. 475
T. 13 N., R. 30 W., sec. 21, on main road south from North Platte, near woven wire fence; iron post stamped "Sidney 2822".....	2, 822. 211
NOTE.—This bench mark has been moved 10 feet south from its original position; the elevation has not been changed.	
T. 13 N., R. 31 W., sec. 24, on road running west from Platte River bridge; iron post stamped "Sidney 2833".....	2, 833. 450
T. 14 N., R. 29 W., NE. $\frac{1}{4}$ sec. 30, in valley northwest of white schoolhouse, iron post stamped "Sidney 2822".....	2, 821. 754
T. 14 N., R. 28 W., near north side of sec. 27; iron post stamped "Sidney 2866".....	2, 866. 912
T. 14 N., R. 28 W., SW. $\frac{1}{4}$ sec. 2; iron post stamped "Sidney 2912".....	2, 911. 744
T. 15 N., R. 28 W., SW. $\frac{1}{4}$ sec. 23; iron post stamped "Sidney 2954".....	2, 953. 659
T. 15 N., R. 28 W., NW. $\frac{1}{4}$ sec. 2, near house; iron post stamped "Sidney 3000".....	2, 999. 632
T. 15 N., R. 31 W., sec. 22, west of schoolhouse; iron post stamped "Sidney 2930".....	2, 930. 106
T. 15 N., R. 29 W., SE. $\frac{1}{4}$ sec. 5, on old stage road; iron post stamped "Sidney 2999".....	2, 999. 338
T. 15 N., R. 29 W., NE. $\frac{1}{4}$ sec. 18, on old stage road; iron post stamped "Sidney 3053".....	3, 053. 330
T. 15 N., R. 30 W., southeast corner of sec. 34; iron post stamped "Sidney 2978".....	2, 978. 133
T. 15 N., R. 31 W., NE. $\frac{1}{4}$ sec. 7, on old north-south wagon road; iron post stamped "Sidney 3087".....	3, 086. 543
T. 15 N., R. 31 W., southwest corner of sec. 16; iron post stamped "Sidney 3075".....	3, 075. 231
T. 15 N., R. 30 W., sec. 19, at Ellis schoolhouse; iron post stamped "Sidney 2946".....	2, 945. 822
T. 16 N., R. 29 W., east side of sec. 22, near red schoolhouse; iron post stamped "Sidney 3038".....	3, 037. 880
T. 16 N., R. 31 W., near center of sec. 9; iron post stamped "Sidney 3127".....	3, 127. 329
T. 14 N., R. 31 W., NE. $\frac{1}{4}$ sec. 33; iron post stamped "Sidney 3139".....	3, 138. 549
T. 16 N., R. 28 W., near quarter corner on south side of sec. 22; iron post stamped "Sidney 3012".....	3, 011. 586
Myrtle, T. 16 N., R. 29 W., sec. 12; iron post stamped "Sidney 3049".....	3, 049. 452
T. 16 N., R. 28 W., SE. $\frac{1}{4}$ sec. 8; iron post stamped "Sidney 3035".....	3, 035. 205
T. 16 N., R. 30 W., SW. $\frac{1}{4}$ sec. 10, on road north from Ellis ranch; iron post stamped "Sidney 3105".....	3, 104. 870
T. 16 N., R. 30 W., sec. 21, on road north from Ellis ranch; iron post stamped "Sidney 3077".....	3, 077. 258

T. 16 N., R. 30 W., south side of sec. 31, on road north from Ellis ranch; iron post stamped "Sidney 3043"	Feet. 3, 043. 281
T. 17 N., R. 28 W., sec. 35, road crossing Logan-Lincoln county line; iron post stamped "Sidney 3002"	3, 001. 950
T. 17 N., R. 29 W., quarter corner on east side of sec. 1; iron post stamped "Sidney 2960"	2, 960. 470
T. 17 N., R. 29 W., NE. $\frac{1}{4}$ sec. 10, near Chapin's house; iron post stamped "Sidney 2974"	2, 974. 350
T. 17 N., R. 31 W., sec. 8, crossroads east of Newberry's ranch; iron post stamped "Sidney 3200"	3, 200. 253
T. 17 N., R. 31 W., SW. $\frac{1}{4}$ sec. 34, on road from Seely post office to Newberry's ranch, near top of high hill; iron post stamped "Sidney 3183"	3, 182. 615
T. 17 N., R. 30 W., NE. $\frac{1}{4}$ sec. 1, 0.5 mile north of Clothier's house; iron post stamped "Sidney 3066"	3, 066. 100
T. 17 N., R. 30 W., northwest corner of sec. 36; iron post stamped "Sidney 3141"	3, 141. 424
T. 18 N., R. 28 W., SW. $\frac{1}{4}$ sec. 35; iron post stamped "Sidney 2946"	2, 945. 770
T. 18 N., R. 28 W., southeast corner of sec. 32; iron post stamped "Sidney 2947"	2, 946. 832
T. 18 N., R. 29 W., near southwest corner of sec. 34; iron post stamped "Sidney 3019"	3, 019. 280
T. 18 N., R. 30 W., sec. 33; iron post stamped "Sidney 3168"	3, 167. 599
T. 18 N., R. 31 W., NW. $\frac{1}{4}$ sec. 33, on road north from Newberry's ranch; iron post stamped "Sidney 3232"	3, 231. 849

GOTHENBURG QUADRANGLE.

[Latitude 40° 30'-41°; longitude 100°-100° 30'.]

Near public-land corners.

T. 6 N., R. 24 W., northwest corner of sec. 6; iron post stamped "Sidney 2563"	2, 562. 895
T. 6 N., R. 25 W., northeast corner of sec. 4; iron post stamped "Sidney 2592"	2, 591. 955
T. 6 N., R. 26 W., northeast corner of sec. 5; iron post stamped "Sidney 2551"	2, 550. 925
T. 6 N., R. 27 W., NE. $\frac{1}{4}$ sec. 4, on road south from Stockville, near township line; iron post stamped "Sidney 2482"	2, 482. 453
T. 6 N., R. 28 W., northeast corner of sec. 1; iron post stamped "Sidney 2672"	2, 671. 513
T. 7 N., R. 24 W., quarter corner on north side of sec. 6; iron post stamped "Sidney 2668"	2, 667. 895
T. 7 N., R. 25 W., southeast corner of sec. 13; iron post stamped "Sidney 2527"	2, 526. 900
T. 7 N., R. 25 W., southeast corner of sec. 15; iron post stamped "Sidney 2636"	2, 635. 898
T. 7 N., R. 26 W., southeast corner of sec. 12; iron post stamped "Sidney 2674"	2, 673. 852
T. 7 N., R. 26 W., southeast corner of sec. 17; iron post stamped "Sidney 2650"	2, 650. 135
T. 7 N., R. 27 W., south side of sec. 11, on wagon road at divide between Mitchell and Medicine Creek canyons; iron post stamped "Sidney 2705"	2, 704. 661
Ingham, 293 feet west of center of railroad water tank, 318.5 feet east of center of bridge 28, 114.5 feet at right angles from center of main track; iron post stamped "Sidney 2679"	2, 678. 796

	Feet.
T. 7 N., R. 27 W., near northeast corner of sec. 4, on wagon road between Moorefield and Stockville; iron post stamped "Sidney 2671".....	2, 671. 369
T. 7 N., R. 27 W., sec. 24, on wagon road at divide between Mitchell and Medicine creeks; iron post stamped "Sidney 2677".....	2, 677. 083
T. 7 N., R. 27 W., north side of sec. 30; iron post stamped "Sidney 2638" ..	2, 637. 513
Stockville courthouse; iron post stamped "Sidney 2482".....	2, 482. 451
T. 7 N., R. 28 W., SW. $\frac{1}{4}$ sec. 11; iron post stamped "Sidney 2733".....	2, 732. 561
T. 8 N., R. 26 W., quarter corner on south side of sec. 10; iron post stamped "Sidney 2818".....	2, 817. 937
Farnam, in front of railroad station; iron post stamped "Sidney 2729"....	2, 729. 024
T. 8 N., R. 26 W., NE. $\frac{1}{4}$ sec. 3, in foundation of Curtis ranch house; aluminum tablet stamped "Sidney 2770".....	2, 769. 851
T. 8 N., R. 24 W., near northeast corner of sec. 2, on Frontier-Dawson county line; iron post stamped "Sidney 2743".....	2, 742. 590
T. 8 N., R. 25 W., south side of sec. 12, on Chicago, Burlington & Quincy R. R.; iron post stamped "Sidney 2687".....	2, 687. 468
Eustis, water tank at railroad station; aluminum tablet stamped "Sidney 2624".....	2, 623. 729
T. 8 N., R. 25 W., sec. 3, on Chicago, Burlington & Quincy R. R.; iron post stamped "Sidney 2691".....	2, 691. 325
T. 8 N., R. 27 W., southwest corner of sec. 15; iron post stamped "Sidney 2767".....	2, 767. 453
T. 8 N., R. 28 W., sec. 2, at ranch house in Curtis Canyon; iron post stamped "Sidney 2625".....	2, 624. 743
T. 9 N., R. 28 W., NE. $\frac{1}{4}$ sec. 25, in Curtis Canyon; iron post stamped "Sidney 2678".....	2, 677. 749
Moorefield, in park, 50 feet east and 26 feet south of east end of station, at right angles from center line of main track; iron post stamped "2826 Sidney".....	2, 825. 848
Curtis, in park, 50 feet east and 26 feet south of east end of station, at right angles from center line of main track; iron post stamped "2560 Sidney" ..	2, 560. 071
T. 9 N., R. 28 W., north side of sec. 12, on wagon road down Curtis Canyon; iron post stamped "Sidney 2738".....	2, 738. 086
T. 9 N., R. 27 W., sec. 34, on wagon road from Moorefield to Hill's ranch, near township line; iron post stamped "Sidney 2851".....	2, 850. 925
T. 9 N., R. 27 W., sec. 15, quarter mile northwest of Hill's ranch; iron post stamped "Sidney 2741".....	2, 740. 581
T. 10 N., R. 28 W., NE. $\frac{1}{4}$ sec. 12, at head of Curtis Canyon; iron post stamped "Sidney 2934".....	2, 934. 167
T. 10 N., R. 27 W., SE. $\frac{1}{4}$ sec. 20, near Beerley's house; iron post stamped "Sidney 2850".....	2, 850. 082
T. 10 N., R. 27 W., NE. $\frac{1}{4}$ sec. 5, on wagon road at head of Conroy Canyon; iron post stamped "Sidney 2989".....	2, 989. 333
T. 11 N., R. 28 W., NE. $\frac{1}{4}$ sec. 36, at Abercrombie's windmill; iron post stamped "Sidney 2876".....	2, 876. 072
T. 11 N., R. 28 W., NE. $\frac{1}{4}$ sec. 1; iron post stamped "Sidney 2769".....	2, 768. 897
T. 11 N., R. 27 W., near north side of sec. 29, near Norlander's ranch; iron post stamped "Sidney 2802".....	2, 801. 839
T. 11 N., R. 27 W., NW. $\frac{1}{4}$ sec. 9, on small hill east of road up Conroy Canyon; iron post stamped "Sidney 2743".....	2, 742. 566
T. 12 N., R. 27 W., NW. $\frac{1}{4}$ sec. 34, 0.5 mile north of Ericson's ranch; iron post stamped "Sidney 2665".....	2, 664. 534

APPENDIX A.

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

Ainsworth, Arabia, Bristow, Chadron, Dakota, David City, Fort Robinson, Grand Island, Harrison, Leigh, Merriman, Neligh, Nenzel, Omaha and vicinity, O'Neill, Pender, Pierce, Rushville, St. Paul, Stromsburg, Stuart, Superior, Valentine, and Winside quadrangles.

ADAMS, ANTELOPE, BROWN, CHERRY, DAKOTA, DAWES, DIXON, DOUGLAS, HALL, HOLT, MADISON, MERRICK, NUCKOLLS, PIERCE, PLATTE, ROCK, SARPY, SHERIDAN, SIOUX, WAYNE, AND WEBSTER COUNTIES.

The following descriptions and elevations are taken from reports of the Coast and Geodetic Survey and are republished by permission of the superintendent of that bureau. The bench marks were established by the Coast and Geodetic Survey and by the Missouri River Commission from precise leveling and were included in the 1912 adjustment by the Coast and Geodetic Survey. The elevations are likely to be changed but slightly by any future adjustment.

AINS WORTH QUADRANGLE.

[Latitude 42° 30'-43°; longitude 99° 30'-100°.]

From point 6 miles east of Bassett westerly along Chicago & North Western Ry. to point 2 miles east of Johnstown.

Bassett, 6 miles east of, in sec. 4, T. 30, R. 18, on right of way, 15 meters from where county road crosses railroad, 1.9 meters north of railroad fence, 2.5 meters west of fence along county road, in line with telegraph poles, 12.35 meters south of south rail of track; top of limestone post (C. & G. S. b. m. W 2).....	Feet. 2, 274. 628
Bassett, on railroad right of way, on south side of track, 5.9 meters south of south rail of main track, in line with and 7.35 meters east of railroad station; top of limestone post (C. & G. S. b. m. X 2).....	2, 326. 242
Long Pine, in lot near station, 1.2 meters north of fence along railroad, 3.6 meters from fence along street; top of limestone post (C. & G. S. b. m. Y 2).....	2, 402. 453
Ainsworth, on right of way of railroad, in line with telegraph poles, 44 rods west of station, 11.8 meters south of south rail of main track, 11.3 meters west of railroad section tool house; top of limestone post (C. & G. S. b. m. Z 2).....	2, 522. 896

ARABIA QUADRANGLE.

[Latitude 42° 30'-43°; longitude 100°-100° 30'.]

From point 2 miles east of Johnstown westerly along Chicago & North Western Ry. to Thacher.

Johnstown, 2 miles east of, on right of way, in line with telegraph poles, 13.4 meters south of south rail of track, 1 meter north of railroad fence at line fence; top of limestone post (C. & G. S. b. m. A 3).....	2, 588. 991
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Woodlake, 3 miles east of, on right of way, just across tracks from milepost marked "Fremont 241 miles," in line with telegraph poles, 11.3 meters south of south rail of track, 3.7 meters north of railroad fence; top of limestone post (C. & G. S. b. m. B 3).....	Feet. 2, 656. 602
Woodlake, 3 miles west of, on right of way, 1.6 meters south of milepost marked "Fremont 247 miles," 12.7 meters north of north rail of track; top of limestone post (C. & G. S. b. m. C 3).....	2, 701. 651
Arabia, 1 mile west of, on right of way, in line with telegraph poles, 10 rods west of milepost marked "Fremont 254 miles," 1.3 meters north of railroad fence, 13.5 meters south of south rail of track; top of limestone post (C. & G. S. b. m. D 3).....	2, 726. 877

BRISTOW QUADRANGLE.

[Latitude 42° 30'-43°; longitude 98° 30'-99°.]

From point 4 miles east of Atkinson westerly along Chicago & North Western Ry. to point 3 miles east of Stuart.

Atkinson, 4 miles east of, in sec. 11, T. 30, R. 14, on right of way, on south side of track, 13.5 meters from track, 1.2 meters from right-of-way fence, 11.5 meters from road crossing railroad at this point; the adjoining land is said to belong to a Mrs. Minor; top of limestone post (C. & G. S. b. m. R 2).....	2, 065. 554
Atkinson, in southwest corner of stone base of railway water tower, 47 paces west of station, 5 paces from north rail of track; copper bolt (C. & G. S. b. m. S 2).....	2, 109. 287

CHADRON QUADRANGLE.

[Latitude 42° 30'-43°; longitude 102° 30'-103°.]

From point 5.25 miles west of Rushville westerly along Chicago & North Western Ry. to point 1 mile west of Chadron.

Rushville, 5.25 miles west of, 5.1 meters north of north rail, on stone culvert 597, at east end of large coping stone which lies parallel with track, 20 centimeters from east end and 20 centimeters from north side of stone; copper bolt (C. & G. S. b. m. W 3).....	3, 756. 420
Hay Springs, in lawn adjoining west end of railroad station, 5.9 meters from southwest corner of station, 4.1 meters north of north rail, 21.7 meters northwest of northwest corner of grain elevator opposite station; top of limestone post (C. & G. S. b. m. X 3).....	3, 828. 031
Bordeaux, 1 mile east of, 5.4 meters north of north rail of track, in stone culvert 635, in north wing of east abutment, on middle line of stone 40 centimeters from end; copper bolt (C. & G. S. b. m. Y 3).....	3, 731. 351
Chadron, 3 miles east of, on stone culvert 653, on south side of track, in middle stone over arch, 13 centimeters from south edge of stone, between two large notches cut in edge of stone; bottom of square hole (C. & G. S. b. m. Z 3).....	3, 389. 242
Chadron, near junction of Main Avenue with railroad, just east of avenue, at west end of grass plat adjoining office of American Express Co., 63 steps west of west wall of express office, 4½ steps south of line of telegraph poles running along north fence of grass plat, 14.7 meters south of south rail of main track; top of limestone post (C. & G. S. b. m. A 4).....	3, 369. 015
Chadron, in north and front entrance to courthouse, in west stone supporting two iron columns, between column and wall, 20 centimeters from east side of stone, 73 centimeters from north edge, 19½ centimeters from brick column projecting beyond main wall and 41½ centimeters from main entrance wall; copper bolt (C. & G. S. b. m. B 4).....	3, 391. 745

DAKOTA QUADRANGLE.

[Latitude 42°-42° 30'; longitude 96°-96° 30'.]

From Dakota north along Chicago, St. Paul, Minneapolis & Omaha Ry. to Sioux City.

Dakota City, in northeast corner of courthouse grounds, 8.25 meters east of east tree in north row, 8.8 meters north of north tree of east row of trees in grounds, 66.2 meters northeast from northeast corner of courthouse; iron post, marked "U. S. \bigcirc B. M." (Mo. R. Comm. b. m. Dakota City).....	Feet. 1, 097. 426
South Sioux City, on graded ground north of railroad station, 7.2 meters from intersection of inside rails of main track and switch, 6.3 meters from former and 6.15 meters from latter; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. B 2).....	1, 101. 917

DAVID CITY QUADRANGLE.

[Latitude 41°-41° 30'; longitude 97°-97° 30'.]

From Duncan northerly along Union Pacific R. R. to point about halfway between Columbus and Oconee.

Duncan, in park east of station, in line with row of trees in park, 4.8 meters from east tree and 10.55 meters from track; top of stone post, marked "U. S. \square B. M." (C. & G. S. b. m. C 1)	1, 492. 097
Columbus gage station on Loup River, 72 feet east of gage rod, gage is on piling revetment, just upstream from Union Pacific R. R. bridge, on left bank of stream, near east tower of cable; U. S. Geological Survey bench mark post (C. & G. S. b. m. Columbus No. 2).....	1, 453. 553
Columbus gage station on Platte River, 44.5 feet east of gage, 60 feet north of north end of north bridge truss, 10 feet west of 6-inch cottonwood tree, 2.5 miles south of Columbus; U. S. Geological Survey bench mark post (C. & G. S. b. m. Columbus No. 3).....	1, 441. 511
Columbus, in northeast one of six shoulders to foundation of water tower; bottom of square cut lettered "U. S. \square B. M." (C. & G. S. b. m. D 1)...	1, 446. 207
Columbus, near west end of doorstep at south entrance of new high school building (1898); bottom of square cut, lettered "U. S. \square B. M." (C. & G. S. b. m. E 1).....	1, 447. 642
Columbus and Oconee, about halfway between, on right of way, at switch called Winstone, 1.3 meters east of fence, 13.22 meters west of track, 30 meters west of stockyards; top of marble post, marked "U. S. \square B. M." (C. & G. S. b. m. F 1).....	1, 463. 098

FORT ROBINSON QUADRANGLE.

[Latitude 42° 30'-43°; longitude 103°-103° 30'.]

From point 1 mile west of Chadron southwesterly along Chicago & North Western Ry. to point near Fort Robinson.

Chadron, 1 mile west of, 123.7 meters east of post bearing sign "Station one mile," 12.9 meters south of south rail of track, in line with telegraph poles; top of limestone post (C. & G. S. b. m. C 4).....	3, 336. 870
Chadron, 7.5 miles west of, on right of way, 17 rails west of milepost 414, 9 rails west of trestle 670, 33 feet south of center of track, 6 feet north of wire fence; bottom of square hole in top of limestone post lettered "U. S. \square B. M." (C. & G. S. b. m. D 4)	3, 298. 964
Whitney, on right of way, 100 yards west of station, 20 feet north of track, in corner of section-house yard nearest station and track; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. E 4).....	3, 409. 212

Crawford, 3.5 miles east of, at milepost 429, on right of way, on south side of track, 33 feet from center of track and 12 feet from fence; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. F 4).....	Feet. 3, 594. 843
Crawford, on west side of brick building known as Syndicate Block, on corner now occupied by Bank of Crawford, a few inches above sidewalk, 6 or 7 feet from southwest corner, 10 inches from north end of stone sill; bottom of square hole, marked "U. S. \square B. M." (C. & G. S. b. m. G 4)...	3, 677. 945
Fort Robinson, in corner of station park, 3 feet from east and north fences, 66 feet east of east end of station, 20 feet south of center of track; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. H 4).....	3, 783. 792

GRAND ISLAND QUADRANGLE.

[Latitude 40° 30'–44°; longitude 98°–98° 30']

From Brickton northerly along Chicago, Burlington & Quincy R. R. to Chapman.

Brickton, at siding, 100 meters south of elevator, 10 meters south of switch, 0.3 meter east of fence marking right of way of railroad; top of limestone post marked "U. S. \square B. M." (C. & G. S. b. m. J).....	1, 829. 228
Hastings, on west coping of railing of south step of courthouse; bottom of square cut, lettered "U. S. \square B. M." (C. & G. S. b. m. K).....	1, 930. 528
Hastings, on east end of fourth step outside of railing of steps to First National Bank Building; bottom of square cut, lettered "U. S. \square B. M." (C. & G. S. b. m. "Bank").....	1, 930. 882
Hastings, on northeast corner of coping of foundation of water tower belonging to city, 8 inches from ground; bottom of square cut, lettered "U. S. \square B. M." (C. & G. S. b. m. "Tower").....	1, 932. 004
Hansen, opposite station, on right of way, west of track and in line of ash trees which is parallel to track, 1 meter from third and 1.5 meters from fourth tree counting from north end; top of limestone post marked "U. S. \square B. M." (C. & G. S. b. m. L).....	1, 941. 938
Doniphan, 0.8 meter south of northwest corner of Bank of Doniphan, on stone foundation of west side, bottom of square cut (C. & G. S. b. m. M)...	1, 944. 468
Rivers, on right of way, west of station sign "Rivers," 6 miles south of Grand Island, 0.3 meter east of fence separating right of way from property of George Clousen, in line with station sign; top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. N).....	1, 873. 159
Grand Island, 1 mile west of, in brick wall of wash room of Oxnard Beet Sugar Factory, on east side, between two sets of windows, 4.15 meters from northeast corner, 1.4 meters from ground; copper bolt (C. & G. S. b. m. O).....	1, 876. 850
Grand Island, on shoulder of north column at east and main entrance to Security Bank Building, 0.8 meter from sidewalk, 1.3 meters from steps leading down into Republican printing office; bottom of square hole, lettered "U. S. \square B. M." (C. & G. S. b. m. P).....	1, 863. 825
Grand Island, 0.5 mile east of Union Pacific R. R. station, in northeast corner of small park across track from office at Union Pacific R. R. car shops, 1.07 meters from east and 1.28 meters from north fence bounding park; top of post (C. & G. S. b. m. Q).....	1, 855. 721
Grand Island, 325 meters east of milepole 160 on Union Pacific R. R. west of Grand Island, on west coping stone of north end of limestone culvert, 0.32 meter from west and 0.15 meter from north edge of stone; bottom of square hole (C. & G. S. b. m. R).....	1, 901. 003

HARRISON QUADRANGLE.

[Latitude 42° 30'-43°; longitude 103° 30'-104°.]

From point near Fort Robinson westerly along Chicago & North Western Ry. to point 6.5 miles west of Harrison.

Fort Robinson, 7 miles west of, 0.8 mile east of Glen, 0.3 mile west of milepost 442, on north side of track, on east abutment (concrete) of culvert 725 under railroad, 2.5 feet from north end; bottom of square hole, marked "U. S. \square B. M." (C. & G. S. b. m. I 4).....	Feet. 4,005.973
Andrews, 0.5 mile east of, on right of way, 30.5 rails east of milepost 451, 4.5 rails east of tile drain 750½, on south side of track, 36 feet from its center, 10 feet from fence; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. J 4).....	4,416.077
Harrison, 1.5 miles east of, on right of way, 2.5 rails east of milepost 459, 9 paces south of railroad track, 3 paces north of telegraph pole; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. K 4).....	4,863.337
Harrison, on county courthouse, near middle of south wall which is of very soft brick, in second row of brick above water table, 3 feet east of east side of middle (closed) window, letters U. S. B. M. cut on vertical face of sandstone water table directly below bench mark with an arrow pointing toward it; copper bolt (C. & G. S. b. m. L 4).....	4,877.802
Harrison, 6.5 miles west of, on right of way of railroad, opposite milepost 467, in line with telegraph poles on south side of track; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. M 4).....	4,800.151

LEIGH QUADRANGLE.

[Latitude 41° 30'-42°; longitude 97°-97° 30'.]

From Oconee northerly along Union Pacific R. R. to point 1.5 miles southwest of Norfolk.

Platte Center, on southeast one of eight stone cubes supporting water tank, on northwest corner of stone, 6 centimeters from west edge and 15 centimeters from northwest corner of wooden column; bottom of square cut (C. & G. S. b. m. H 1).....	1,537.159
Tarnov, 1.17 meters west of station sign, 3.65 meters west of Union Pacific R. R. track, 1.64 meters from southwest corner of station platform; top of stone post, lettered "U. S. \square B. M." (C. & G. S. b. m. I 1).....	1,624.167
Humphrey, 200 yards southwest from large Catholic Church, in east face of brick schoolhouse, in third tier of bricks above stone coping, 40 centimeters from southeast corner of building; copper bolt (C. & G. S. b. m. J 1)...	1,692.668
Madison and Humphrey, about halfway between, on right of way, 120 yards south of milepole 31, 12.83 meters west of track, 1.63 meters from fence; top of stone post, marked "U. S. \square B. M." (C. & G. S. b. m. K 1).....	1,622.822
Madison, in south wall of Madison State Bank Building, in tenth course of brick from line of window sills, in third brick west of window casing in southeast corner, 1.235 meters above sidewalk and 2.6 meters from southeast corner; copper bolt (C. & G. S. b. m. L 1).....	1,589.784
Madison and Warnerville, on right of way between, 0.98 meter from fence on west side, 13.52 meters from track, 9.75 meters from railroad gate across a private road leading to house of J. B. Long which is about 0.25 mile east; top of stone post, lettered "U. S. \square B. M." (C. & G. S. b. m. M 1).....	1,696.683

MERRIMAN QUADRANGLE.

[Latitude 42° 30'–43°; longitude 101° 30'–102°.]

From point 5 miles west of Ell westerly along Chicago & North Western Ry. to point 5 miles east of Gordon.

Eli, 5 miles west of, on right of way, east of milepost 326, just east of cut and south of railroad crossing; top of limestone post (C. & G. S. b. m. N 3)...	Feet. 3, 192. 766
Merriman, 0.8 mile east of, on south side of track, 3.7 meters from south rail of track, on coping stone of stone culvert, 22 centimeters from end and 25 centimeters from either side; copper bolt (C. & G. S. b. m. O 3).....	3, 242. 608
Merriman, 6 miles west of, on railroad, in stone culvert, 3.6 meters north of north rail, on coping stone running parallel with railroad, 53 centimeters from west end and 25 centimeters from north edge; copper bolt (C. & G. S. b. m. P 3).....	3, 331. 332
Irwin, on right of way, 35 paces southeast of post bearing name "Irwin," 7.8 meters northwest of northwest corner of western section house; top of stone post (C. & G. S. b. m. Q 3).....	3, 438. 215

NELIGH QUADRANGLE.

[Latitude 42°–42° 30'; longitude 98°–98° 30'.]

From Savage west along Chicago, Burlington & Quincy R. R. to point 3 miles east of O'Neill.

Savage, 52 meters west of west face of station, 11.6 meters north of north rail of railroad, 2.44 meters north of north pile of and in line with west row of four piles supporting water tank; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. I 2).....	1, 867. 762
Orchard, 58 meters east of station, in line with and between first and second telegraph poles east of station, 5.1 meters north of main track and 8.3 meters south of siding of railroad; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. J 2).....	1, 941. 059
Page, at north corner formed by west and south platforms to station, 4.02 meters from southwest corner of station, 4.8 meters north of north rail of Great Northern Ry.; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. K 2).....	1, 955. 708
Page, 1.5 miles north of, 2.1 meters north of row of trees separating property of C. W. Denel from east-west road, 110 paces southwest of southwest corner of his home, 62 paces west of doorway; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. L 2)....	2, 004. 941
Page, 1.5 miles north by 1 mile west of, 17.3 meters east of southeast corner of William Lord's house, 100 paces southeast of Page Southwest Base; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. M 2).....	2, 052. 257
Page, 2 miles north by 1 mile west of, 12 miles east and 2 miles south of O'Neill, on land owned by William Lord, northwest of his dwelling about 100 meters, on limestone block 24 by 24 by 14 inches, securely set in cement, lettered, and with a copper bolt in center of its upper surface marked with cross lines (C. & G. S. b. m. "Page Southwest Base Δ")... 2, 053. 976	

NENZEL QUADRANGLE.

[Latitude 42° 30'–43°; longitude 101°–101° 30'.]

From Nenzel westerly along Chicago & North Western Ry. to point 5 miles west of Ell.

Nenzel, at northeast corner of lot by railroad section house, 8 rods west of post bearing sign of Nenzel, 5 meters south of south rail of track; top of limestone post (C. & G. S. b. m. J 3).....	3, 110. 003
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Cody, 70.5 meters west of southwest corner of station, 3.9 meters north of north rail of main track, 19.3 meters southeast of southeast corner of section house, 46 paces east of southeast corner of coaling station; stone post (C. & G. S. b. m. K 3)	Feet. 3, 098. 498
Cody, 7 miles west of, in stone culvert 509, on railroad, in southeast wing of culvert abutment, on coping stone 2.5 decimeters from end and 2 decimeters from each side, 5.4 meters south of south rail of track; bottom of square hole in top of limestone post, marked "U. S. \square B. M." (C. & G. S. b. m. L 3).....	3, 136. 388
Eli, 1 mile west of, on right of way, in line with telegraph poles, 36.9 meters west of post marked "Station one mile," 10.9 meters south of south rail of track; top of stone post (C. & G. S. b. m. M 3).....	3, 218. 508

OMAHA AND VICINITY QUADRANGLE.

[Latitude 41°-41° 23'; longitude 95° 45'-96° 05'.]

At Omaha.

Omaha, at southeast corner of post-office building, at Fifteenth and Dodge streets; top of small projection on top surface of third course of stone above sidewalk (C. & G. S. City b. m. Omaha).....	1, 040. 969
Omaha, at Fifteenth and Dodge streets, on upper surface of water table of post-office building, 5.71 feet east of southwest corner of building; copper bolt (U. S. C. E. p. b. m. 344).....	1, 039. 932
Omaha, at west end of Omaha and Council Bluffs wagon bridge, in top of pedestal block supporting first iron post on north side and west of cylindrical piers; copper bolt (U. S. C. E. p. b. m. 345).....	981. 478
Omaha, at west end of Union Pacific R. R. bridge over Missouri River, 59 feet south of south cylindrical pier next to river, 137 feet southeast of south cylindrical pier next to approach abutment, 39 feet east of east switch track of Burlington & Missouri River R. R.; copper bolt in benchmark stone (U. S. C. E. p. b. m. 346 equals gage b. m.):	
Copper bolt.....	971. 645
Cap on pipe.....	975. 612
Omaha, near, 3,976 feet east of east portal of Union Pacific R. R. bridge over Missouri River, midway between two tracks of Union Pacific R. R.; cross cut on top of stone post (U. S. C. E. t. b. m. 804).....	1, 005. 933

O'NEILL QUADRANGLE.

[Latitude 42°-42° 30'; longitude 98° 30'-99°.]

From point 3 miles east of O'Neill westerly along Chicago, Burlington & Quincy R. R. to O'Neill, thence westerly along Chicago & North Western Ry. to point near Atkinson.

O'Neill, 3 miles east of, on right of way of railroad, 13.8 meters south of track, 170 paces west of milepost 124, 100 paces east of country road crossing the railroad diagonally in line with fence dividing farm of David Babcock from that of Mr. Stainsley, 1.2 meters from railroad right of way fence; top of limestone post (C. & G. S. b. m. N 2).....	1, 953. 670
O'Neill, in lower stair of entrance to First National Bank, at northeast corner of step, 5 inches from outside of stone, 3 inches from end, 4 inches from wall of building; copper bolt (C. & G. S. b. m. O 2).....	1, 986. 899
O'Neill, in courthouse square, 21 meters south of southwest corner of brick foundations, in line with west face of building 12 meters east of inside of sidewalk, on white limestone post established for magnetic station 32 inches long, 4 by 4 inches on top, set 29 inches in ground, lettered "U. S. C. & G. S.;" a small hole in center of top surface is bench mark (C. & G. S. b. m. P 2).....	1, 999. 910

Emmet, 48 feet east of switch signal east of station on Fremont, Elkhorn & Missouri Valley R. R., on north side of track on stone culvert, in middle of west one of two top stones, 0.3 meter west of east end; bottom of square hole (C. & G. S. b. m. Q 2).....	Feet. 2, 021. 636
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PENDER QUADRANGLE.

[Latitude 42°-42° 30'; longitude 96° 30'-97°.]

From Wakefield easterly along Chicago, St. Paul, Minneapolis & Omaha Ry. to Coburn.

Wakefield, in east front of store owned by G. M. Hypse of Omaha and occupied by Mr. Collins as a clothing store, in support on northeast corner, in sixteenth course of brick from bottom and in second brick from north side; copper bolt (C. & G. S. b. m. V 1).....	1, 413. 206
Ridge, 5 miles north of Wakefield, 28.3 meters directly north of central switch post of railroad; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. W 1).....	1, 518. 042
Emerson, in north front of three-story brick grist mill owned by James McHenry, 425 feet southwest from station of Chicago, St. Paul, Minneapolis & Omaha Ry., 225 feet south of main track, 19.68 meters east of northwest corner of mill, 13.5 meters west of northeast corner of elevator part of mill, 1.18 meters above surface of earth, in seventh brick east of large door on north side and 1.29 meters east of east side of door, 0.475 meter above middle small cellar window on north side, 1.185 meters below and to left of most easterly window in mill; copper bolt (C. & G. S. b. m. X 1).....	1, 425. 118
Nacora, on property of H. F. Mosema leased by M. B. McCarty, 46.8 meters northeast of building of Peavey Elevator Co., 17.4 meters southwest of store on Mr. Mosema's property, 27.6 meters east of railway; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. Y 1).....	1, 407. 228
Hubbard, on property of Peavey Elevator Co., 4.5 meters north of intersection of main street and railway, 11.3 meters from latter; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. Z 1).....	1, 156. 064
Coburn, at intersection of Newcastle Ry. and Chicago, St. Paul, Minneapolis & Omaha Ry., 5.2 meters from frog, 2.9 meters from switch post, 35.5 meters from east end of station platform; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. A 2).....	1, 102. 980

PIERCE QUADRANGLE.

[Latitude 42°-42° 30'; longitude 97° 30'-98°.]

From Pierce northwest along Chicago & North Western Ry. to Plainview, thence west along Chicago, Burlington & Quincy R. R. to Brunswick.

Pierce, in stone foundation of courthouse, 4.8 meters from southeast corner, in fifth course of stone from bottom, 1.4 meters from south end of fifth stone from southeast corner, 3 meters south of large doorway on east side, and directly above second basement window from southeast corner; copper bolt (C. & G. S. b. m. D 2).....	1, 591. 231
Foster, 1.2 meters northwest of, in line with northeast side of elevator of Nye & Schneider Co., 35 paces south of their office and 31 paces northeast of Fremont, Elkhorn & Missouri Valley R. R. track; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. E 2).....	1, 638. 422

Plainview, at Main and Locust streets, in west side of building of Farmers State Bank in ninth course of brick above corner stone under southwest corner, in second brick from corner; copper bolt (C. & G. S. b. m. F 2)...	Feet. 1, 697. 217
Plainview, on north side of Locust Street, on building owned by N. M. Nelson and occupied by him as a hardware store, in brick pillar supporting the southeast corner, in ninth course of brick above corner stone, in middle brick; copper bolt (C. & G. S. b. m. G 2).....	1, 697. 273
Brunswick, 10 paces southwest from elevator of Sidman Grain Co., 1 meter from northwest corner of and in line with west side of company's office, 25 paces south of Great Northern Ry. track; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. H 2).....	1, 853. 903

RUSHVILLE QUADRANGLE.

[Latitude 42° 30'-43°; longitude 102°-102° 30'.]

From point 5 miles east of Gordon westerly along Chicago & North Western Ry. to point 5.25 miles west of Rushville.

Gordon, 5 miles east of, on railroad culvert 552, east of milepost 355 miles from Fremont, 5.5 meters south of south rail, on south wing of east abutment, on top stone of stepping of wall, 12 centimeters from end of stone and 11 centimeters from side; bottom of square hole (C. & G. S. b. m. R 3)...	3, 544. 491
Gordon, near southwest corner of park at east end of station, 6.6 meters from southeast corner of station, near intersection of platforms running at right angles on south and east sides of station, 4.2 meters north of north rail of track; top of limestone post (C. & G. S. b. m. S 3).....	3, 553. 776
Gordon, on west side of street intersecting railroad just west of station, at entrance to Maverick Bank, at north end and near outer edge of stone sill; copper bolt (C. & G. S. b. m. T 3).....	3, 556. 292
Clinton, 1 mile east of, 3.55 meters north of north rail of track, in stone culvert 573, top step of north wing of east abutment, 17 centimeters from end of stone and 13 centimeters from side, copper bolt (C. & G. S. b. m. U 3). .	3, 704. 658
Rushville, in park adjoining east end of station, 6.2 meters east of northeast corner of station, near corner formed by intersection of platforms on north and east sides of station, 4.2 meters south from south rail of track; top of limestone post (C. & G. S. b. m. V 3).....	3, 739. 205

ST. PAUL QUADRANGLE.

[Latitude 41°-41° 30'; longitude 98°-98° 30'.]

From Chapman northeast along Union Pacific R. R. to Thummel.

Chapman, in south front of public school, in seventh course above foundation and midway between stone sills of first and second windows from southeast corner; copper bolt (C. & G. S. b. m. V).....	1, 770. 193
Paddock, between track of Union Pacific R. R. and signpost of its station; top of limestone post, marked "U. S. □ B. M." (C. & G. S. b. m. W)...	1, 721. 309
Central City, in north wall of courthouse, 9 centimeters from west edge of projecting front, 1.44 meters from west edge of main entrance, 1.16 meters above stone coping, directly above bench mark of city to which an arrow cut in stone coping points; copper bolt (C. & G. S. b. m. X).....	1, 701. 372

STROMSBURG QUADRANGLE.

[Latitude 41°-41° 30'; longitude 97° 30'-98°.]

From Thummel northeast along Union Pacific R. R. to Duncan.

	Feet.
Thummel, between track and station signpost of Union Pacific R. R.; top of limestone post (C. & G. S. b. m. Y).....	1, 658. 087
Clarks, on sandstone doorstep of south (main) entrance to brick schoolhouse, in northwest corner, 6 inches from woodwork either way; bottom of square cut (C. & G. S. b. m. Z).....	1, 625. 378

NOTE.—This large stone appears to have been broken soon after the building was erected.

Havens, on right of way, between main track and station signpost; bottom of square hole in top of limestone post, marked "U. S. □ B. M." (C. & G. S. b. m. A 1).....	1, 584. 013
Silver Creek, between first and second trees east of station at Silver Creek, 3.5 meters from either tree, 7.79 meters south of main track; top of limestone post, marked "U. S. □ B. M." (C. & G. S. b. m. B 1).....	1, 547. 145

At Oconee.

Oconee, 4.4 meters north of Union Pacific R. R. station, 9.2 meters east of main track; top of stone post, marked "U. S. □ B. M." (C. & G. S. b. m. G 1).....	1, 492. 612
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STUART QUADRANGLE.

[Latitude 42° 30'-43°; longitude 99°-99° 30'.]

From point 3 miles east of Stuart westerly along Chicago & North Western Ry. to point 6 miles east of Bassett.

Stuart, 3 miles east of, in concrete culvert of Chicago & North Western Ry., on south side of tracks, on west side of culvert, on lower ledge, 1 meter from south end, 0.25 meter from inside edge; copper bolt (C. & G. S. b. m. T 2).....	2, 139. 513
Stuart, on right of way, 286 meters west of station, on south side of track, in line with telegraph poles, 12.45 meters from south rail of main track, 26 paces west of tollhouse; top of limestone post (C. & G. S. b. m. U 2).....	2, 155. 468
Newport, on right of way, on north side of track, 3.6 meters from north rail of main track, 5.1 meters west of station; top of limestone post (C. & G. S. b. m. V 2).....	2, 230. 684

SUPERIOR QUADRANGLE.

[Latitude 40°-40° 30'; longitude 98°-98° 30'.]

From Superior westerly and northerly along Chicago, Burlington & Quincy R. R. to Brickton.

Superior, in small park west of Chicago, Burlington & Quincy R. R. station, 3.8 meters from northwest corner and 1.2 meters from west side of station; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. B).....	1, 573. 534
Superior, 1 mile west of, 20 meters from river bank, on north side and 3 meters west of west line of bridge; top of Geological Survey bench-mark post (C. & G. S. b. m. Superior No. 2).....	1, 563. 095
Bostwick, 13.1 meters west of station, 4.8 meters north of track; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. C).....	1, 603. 606
Guide Rock, Missouri sandstone step of bank of Guide Rock, on southwest corner; bottom of square hole, lettered "U. S. □ B. M." (C. & G. S. b. m. D).....	1, 664. 360

Amboy, on right of way, adjacent to property of Amboy Milling & Elevator Co., four rails north of highway and 4 meters east of track, in line with three large cottonwood trees; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. E).....	Feet. 1, 690. 676
Cowles, in park south of station, in center of group of eight small trees, 11 meters south of station and 7 meters east of main track; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. F).....	1, 792. 491
Blue Hill, 5.5 miles south of, on right of way, 0.5 mile south of house of Louis Smith, 1.25 miles northwest of house of Mr. Johnson; bottom of square hole in top of limestone post, lettered "U. S. \square B. M." (C. & G. S. b. m. G).....	1, 948. 264
Blue Hill, on west corner of foundation for water tower belonging to city, on lower of two tiers of limestone, about 10 inches above ground; bottom of square hole, lettered "U. S. \square B. M." (C. & G. S. b. m. H).....	1, 971. 233
Blue Hill, 3 miles west by 2.5 miles south of, near south center of sec. 24, T. 4 N., R. 11, on land owned by Peter Paugh, top of marble post, lettered "U. S. C. S." (C. & G. S. b. m. "Blue Hill \triangle ").....	2, 040. 574
Ayr, on right of way, in fenced park south of station; top of limestone post (C. & G. S. b. m. I).....	1, 837. 516

VALENTINE QUADRANGLE.

[Latitude 42° 30'-43°; longitude 100° 30'-101°.]

From Thacher westerly along Chicago & North Western Ry. to Nenzel.

Thacher, on right of way, in line with telegraph poles, 32.3 meters east of post bearing sign of "Thacher," just across track from railroad section tool house, 5.2 meters south of south rail of main track; top of limestone post (C. & G. S. b. m. E 3).....	2, 653. 692
Valentine, on south side of steps leading to main entrance of new county courthouse, about center of horizontal end of stone; copper bolt (C. & G. S. b. m. F 3).....	2, 585. 014
Crookston, 4 miles east of, in stone culvert at milepost "Fremont 277 miles," on south side of railroad, 3.8 meters from south rail, in center of large stone on east wing of culvert, 1 decimeter from end of stone; copper bolt (C. & G. S. b. m. G 3).....	2, 610. 858
Crookston, 2 miles west of town, in line with telegraph poles on right of way, 3.5 rods west of milepost "Fremont, 283 miles," 14.1 meters south of south rail of track, 6 decimeters north of railroad fence; top of limestone post (C. & G. S. b. m. H 3).....	2, 722. 239
Georgia, on right of way, 19.7 meters southeast of post bearing sign "Georgia," 3 meters northwest of section house, 8.6 meters south of south rail of track; top of limestone post (C. & G. S. b. m. I 3).....	2, 914. 908

WINSIDE QUADRANGLE.

[Latitude 42°-42° 30'; longitude 97°-97° 30'.]

From point 1.5 miles southwest of Norfolk northeasterly along Union Pacific R. R. to Norfolk.

Norfolk, 1.5 miles southwest of, in angle formed by crossing of Union Pacific R. R. and Chicago & North Western Ry., 11.8 meters north of latter track, and 16.31 meters from northeast intersection of two tracks; top of stone post, lettered "U. S. \square B. M." (C. & G. S. b. m. N 1)	1, 521. 506
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Norfolk, at intersection of Fifth Street and Phillip Avenue, on doorstep to west entrance of high-school building erected in 1890, 8 centimeters from outer edge of stone, 10 centimeters from west edge of entrance, and 23 centimeters from west woodwork; bottom of square cut, lettered "U. S. □ B. M." (C. & G. S. b. m. O 1).....	Feet. 1, 525. 298
Norfolk, on north side of Oxnard Hotel, in second tier of bricks above large stone foundation, between east entrance on north side and window just west of entrance; bolt faces east, but is in west side of entrance, about 5 inches from outer edge of bricks and 1.25 inches from woodwork; copper bolt (C. & G. S. b. m. P 1).....	1, 522. 792
Norfolk gage station, on Elkhorn River, 35 feet west and 7 feet north of top of gage, 15.5 feet west of ash tree which has a small spike driven horizontally near root; the elevation of this spike is 2.49 feet below top of bench mark, gage is about 2 miles south of north line of Thirteenth Street extended and about 300 yards east from house of Burr Taft, observer; top of iron bench mark of U. S. Geological Survey (C. & G. S. b. m. Norfolk 3).....	1, 515. 154
From Norfolk northeast along Chicago, St. Paul, Minneapolis & Omaha Ry. to Wakefield.	
Hope, 5 meters west of main track, 150 feet south of north head block, 8 feet northwest of milepost 44, 300 feet north of line connecting insane asylum and Mrs. Keiner's house; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. Q 1).....	1, 553. 268
Hoskins, 15 meters southeast of office of Sidney Grain Co., 30 meters northeast of store owned by Ludwig Zeiner, in south corner of land owned by John Foster, between last two trees from south end of row separating his land from road; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. R 1).....	1, 666. 427
Apex, 350 feet from north head block of switch of Chicago, St. Paul, Minneapolis & Omaha Ry., 10 feet west of track; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. S 1)....	1, 784. 419
Winside, in east end of little park owned by town, between two center trees of east row, 28.8 meters north of railway, 1.8 meters west of eastern fence of park, 44.6 meters east of east side of band stand in center of park; bottom of square hole in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. b. m. T 1).....	1, 563. 409
Wayne, in south front of two-story brick building owned by First National Bank, 13.12 meters west from stone column supporting southeast corner, 3.25 meters from east side of door leading into Strahn & Grimsley's office, in support between fourth and fifth windows from southeast corner, in second course of brick from foundation, in second brick from fourth window, in fourth brick from east edge of fifth window; copper bolt (C. & G. S. b. m. U 1).....	1, 458. 298
At Hadar.	
Hadar, 0.9 meter from northwest corner of office of grain, coal, and lumber firm of Nye & Schneider Co., 0.76 meter from northwest corner of bay window, 46 paces east of Chicago & North Western Ry. track; bottom of square hole in top of limestone post lettered "U. S. □ B. M." (C. & G. S. b. m. C 2).....	1, 556. 332

APPENDIX B.

ELEVATIONS OF STONE-LINE BENCH MARKS ESTABLISHED BY THE MISSOURI RIVER COMMISSION ALONG MISSOURI RIVER.

Blair, Dakota, Elk Point, Hamburg, McPaul, Missouri Valley, Nebraska City, Nemaha, Niobrara, Omaha and vicinity, Onawa, Pender, Rulo, Tekamah, Tyndall, and Yankton quadrangles.

BOYD, BURT, CASS, CEDAR, DAKOTA, DIXON, DOUGLAS, KNOX, NEMAHA, OTOE, RICHARDSON, SARPY, THURSTON, AND WASHINGTON COUNTIES.

The following descriptions and elevations of bench marks along the Missouri River are taken from the report of the Chief of Engineers for 1891, part 6, pages 3812 to 3817, and the report for 1894, part 3, pages 1767 and 1769. These data are republished by permission of the Chief of Engineers, United States Army. The elevations have been corrected to agree with the 1912 adjustment of the Coast and Geodetic Survey.

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

The bench marks 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.

BLAIR QUADRANGLE.

[Latitude $41^{\circ} 30' - 41^{\circ} 45'$; longitude $96^{\circ} - 96^{\circ} 15'$.]

From point 5 miles north of Blair northerly along Missouri River to point near Newton.

Blair, 5 miles north of, SE. $\frac{1}{4}$ sec. 14, T. 19 N., R. 11 E., 1,300 feet north of southwest corner of quarter, on base line measured at that place for the secondary triangulation, 8,790 feet west of East Base station on land owned by W. Tyson; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 128 1):

	Feet.
Copper bolt.....	1,008.47
Cap on pipe.....	1,012.54

Blair, 5 miles north of, 1 mile east of preceding bench mark, on same base line, 3,417 feet west of East Base station, on east side of north-south road, 0.25 mile north of south quarter post of sec. 14, T. 19 N., R. 11 E., 0.25 mile south of W. Tyson's house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 128 2):

	Feet.
Copper bolt.....	1,013.41
Cap on pipe.....	1,017.49

T. 20 N., R. 11 E., 1 foot from stone marking corner of secs. 22, 23, 26, and 27, on Burt-Washington county line; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 129 1):

Copper bolt.....	1,014.26
Cap on pipe.....	1,018.32

Burt-Washington county line, 4,345 feet due east from previously described bench mark, at end of private lane and top of old river bank; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 129 2):

Copper bolt.....	1,016.46
Cap on pipe.....	1,020.52

T. 21 N., R. 12 E., on south line of sec. 31, 1,210 feet east of southwest corner of sec. 31, 4 miles north of south line of Burt County, 2 miles from river, near side of winding road on edge of old lake or river bed; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 130 1):

Copper bolt.....	1,024.94
Cap on pipe.....	1,029.00

DAKOTA QUADRANGLE.

[Latitude 42°-42° 30'; longitude 96°-96° 30'.]

From point near Sloan northerly along Missouri River to South Sioux City.

Dakota County, Nebraska, 0.8 mile north of south line of, 1 mile from river, at foot of bluff in dooryard of Daniel Don, near northeast corner of SW. $\frac{1}{4}$ sec. 27, T. 27 N., R. 11 E.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 140 1):

Copper bolt.....	1,079.12
Cap on pipe.....	1,083.19

Tps. 27 and 28 N., on line between, 0.8 mile west of southeast corner of sec. 31, T. 28 N., R. 11 E., in corner of yard of George Wilkinson; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 141 1):

Copper bolt.....	1,091.24
Cap on pipe.....	1,095.30

Dakota City, 2.25 miles west of, at east side of north-south road, 540 feet south of house of E. Bodendenders, in SW. $\frac{1}{4}$ sec. 6, T. 28 N., R. 11 E.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 142 1):

Copper bolt.....	1,096.33
Cap on pipe.....	1,100.43

Dakota City, in northeast corner of county courthouse yard; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 142 2):

Copper bolt.....	1,093.42
Cap on pipe.....	1,097.50

South Sioux City, in dooryard of N. H. Emery, in northeast corner of lot 2, block 27, in Moon's addition; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 143 2):

Copper bolt.....	1,098.71
Cap on pipe.....	1,102.76

ELK POINT QUADRANGLE.

[Latitude 42° 30'-43°; longitude 96° 30'-97°.]

From point 4 miles south of Jefferson northwesterly along Missouri River to point 3 miles above Vermilion.

Ponca Landing, 3.5 miles below, in creek valley, 1,200 feet from river where it strikes bluffs; George Barben lives near bench mark; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 356 1):

	Feet.
Copper bolt.....	1, 131. 34
Cap on pipe.....	1, 135. 39

Ponca Landing, 0.5 mile below, at foot of bluffs, in farmyard of John Austin, 300 feet southwest from his dwelling house, 250 feet south of road between Ponca and Ponca Landing; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 355 1):

Copper bolt.....	1, 117. 97
Cap on pipe.....	1, 122. 02

Line Creek Valley, 30 feet northwest from schoolhouse, about 1.25 miles below ferry at Mulberry Point, about 1,600 feet from river; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 347 1):

Copper bolt.....	1, 152. 92
Cap on pipe.....	1, 156. 96

HAMBURG QUADRANGLE.

[Latitude 40° 30'-40° 45'; longitude 95° 30'-95° 45'.]

From Iowa-Missouri State line northerly along Missouri River to Nebraska City.

Otoe City, 1.25 miles above, near northeast corner of SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 36, T. 8 N., R. 14 E., at west fence of railroad right of way, on premises owned by McGuire; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 110 1):

Copper bolt.....	912. 69
Cap on pipe.....	916. 76

McPAUL QUADRANGLE.

[Latitude 40° 45'-41°; longitude 95° 45'-96°.]

From Jones Point northerly along Missouri River to point near Plattsmouth.

Jones Point, at lower end of bluff where it turns west, 490 feet from river bank, in corner of field, 15 feet south of road, in SW. $\frac{1}{4}$ sec. 28, T. 10 N., R. 14 E.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 114 1):

Copper bolt.....	936. 61
Cap on pipe.....	940. 68

Jones Point, 5.5 miles (measuring along bluff) above, 60 feet from river, at foot of bluff, at lower side of small valley, 200 feet south of east-west half-section line through sec. 33, T. 11 N., R. 14 E., on south side of small creek; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 115 1):

Copper bolt.....	952. 15
Cap on pipe.....	956. 22

Rock Bluff, 15 feet east of northwest corner of Second and Main streets, in dooryard of R. Churchill; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 116 1):

Copper bolt.....	968. 30
Cap on pipe.....	972. 37

Plattsmouth Railroad bridge, 10 feet south, on line with first trestle bent west of west end of bridge; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 117 1):

	Feet.
Copper bolt.....	953.11
Cap on pipe.....	957.17

MISSOURI VALLEY QUADRANGLE.

[Latitude 41° 30'–41° 45'; longitude 95° 45'–96°.]

From Desoto northerly along Missouri River to point 5 miles north of Blair.

Blair, in southeast corner of dooryard of H. L. Fisher, at corner of Seventh and Washington streets; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 127 1):

Copper bolt.....	1,077.45
Cap on pipe.....	1,081.51

NEBRASKA CITY QUADRANGLE.

[Latitude 40° 30'–40° 45'; longitude 95° 45'–96°.]

From Nebraska City northerly along Missouri River to Jones Point.

Nebraska City, at northwest corner of First Street and Central Avenue, on lot owned by Nebraska City Gas Co.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 111 1):

Copper bolt.....	944.70
Cap on pipe.....	948.77

Nebraska City, 3.25 miles above, at foot of bluff, 900 feet from river, opposite mouth of small stream known as Walnut Creek, SE. $\frac{1}{4}$ sec. 30, T. 9 N., R. 14 E., in dooryard of John Roddy; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 112 1):

Copper bolt.....	1,005.32
Cap on pipe.....	1,009.38

Wyoming, 0.5 mile below, 180 feet from river bank, 160 feet south of small spring brook, on small elevation in dooryard of Edward W. Neligh; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 113 1):

Copper bolt.....	950.23
Cap on pipe.....	954.28

NEMAHA QUADRANGLE.

[Latitude 40° 15'–40° 30'; longitude 95° 30'–95° 45'.]

From point near Arago northerly along Missouri River to Missouri-Iowa State line.

St. Deroin, at west side of Nebraska Street, 450 feet from river bank, in southeast corner of dooryard of Allen Woodring; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 103 1):

Copper bolt.....	877.76
Cap on pipe.....	881.82

St. Deroin, at Hillsdale, on west side of north-south road, 440 feet from river, in southeast corner of dooryard of L. J. Slagle, 24 feet north of his house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 104 1):

Copper bolt.....	889.58
Cap on pipe.....	893.62

Nemaha City, 0.8 mile above, at foot of bluff, 100 feet west of railroad track, in yard of premises owned by William Hoover; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 105 1):		Feet.
Copper bolt.....	895. 17	
Cap on pipe.....	899. 22	
Brownville, at northwest corner of Main Street and Levee, 122 feet north-west of railroad station; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 106 1):		
Copper bolt.....	904. 66	
Cap on pipe.....	908. 72	
Brownville, 4 miles (measuring along railroad) above, 1,650 feet west of railroad, at foot of bluff, 50 feet north of Honey Creek, 190 feet east of Henry Coles's house, in fence corner where road turns west; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 107 1):		
Copper bolt.....	897. 73	
Cap on pipe.....	901. 79	
Peru, on west side of Fifth Street, 150 feet north of Mulberry Street, in northeast corner of dooryard of John C. Wayne; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 108 1):		
Copper bolt.....	908. 14	
Cap on pipe.....	912. 20	
T. 6 N., R. 15 E., on east side of road running through eastern part of sec. 9, 1,202 feet north of line through center of section, 50 feet north of house owned by Robert Rader; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 108 2):		
Copper bolt.....	899. 28	
Cap on pipe.....	903. 35	
Otoe City, 1.5 miles below, at foot of bluff, 68 feet west of railroad track, 2,860 feet below (south of) section house, in dooryard of premises owned by Mr. Coe; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 109 1):		
Copper bolt.....	908. 98	
Cap on pipe.....	913. 04	

NIORARA QUADRANGLE.

[Latitude 42° 30'-43°; longitude 98°-98° 30'.]

From point near Niobrara northwesterly along Missouri River to point 2.5 miles below White Swan.

Niobrara, southeast corner of high-school yard; triangulation station mark consisting of an iron pipe (U. S. C. E. b. m. 325 1) 1, 248. 06

OMAHA AND VICINITY QUADRANGLE.

[Latitude 41°-41° 23'; longitude 95° 45'-96° 05'.]

From point near Plattsmouth northerly along Missouri River to point near Desoto.

Plattsmouth, 3.25 miles (measuring along bluff) above, at foot of bluff, 2,610 feet S. 45° 50' E. (mag.) from northwest corner of sec. 1, T. 12 N., R. 13 E.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 118 1):

Copper bolt.....	986. 40
Cap on pipe.....	990. 46

Belleone, 90 feet west of north end of railroad station; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 119 1):	Feet.
Copper bolt.....	972. 41
Cap on pipe.....	976. 48
Omaha, 4.5 miles below Union Pacific R. R. bridge, 0.25 mile north of Sarpy-Douglas county line, 200 feet west of railroad, on south slope of narrow ravine; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 120 1):	
Copper bolt.....	1, 003. 35
Cap on pipe.....	1, 007. 41
Omaha, in northeast corner of Union Pacific R. R. office premises, 99 feet from office building, which is on corner of Ninth and Farnham streets; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 121 1):	
Copper bolt.....	1, 015. 82
Cap on pipe.....	1, 019. 88
North Omaha, 286 feet east of station, in corner of Mrs. Louisa Hillike's yard, at corner of Sixteenth Street and Garfield Avenue; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 122 1):	
Copper bolt.....	982. 69
Cap on pipe.....	986. 76
Florence, on ground of waterworks company, between pump house and river, 115 feet from pump house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 123 1):	
Copper bolt.....	1, 003. 32
Cap on pipe.....	1, 007. 40
Old Rockport, near site of, on small plateau near edge of bluff, 0.25 mile north of line between Douglas and Washington counties, Nebr., on east side of road which winds up hill on north side of narrow valley, on land of Mr. Parker; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 124 1):	
Copper bolt.....	1, 012. 78
Cap on pipe.....	1, 016. 84
Old Fort Calhoun, 800 feet south of site of old fort, in corner of yard of A. M. Beals, 650 feet north 1° W. (mag.) from south quarter post of sec. 12, T. 17 N., R. 12 E.; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 125 1):	
Copper bolt.....	1, 064. 73
Cap on pipe.....	1, 068. 82
Desoto, in angle of east-west and north-south roads, 250 feet northeast from J. E. Markel's house in SE. $\frac{1}{4}$ sec. 28, T. 18 N., R. 12 E., 890 feet west of east line and 1,300 feet north of south line of section; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 126 1):	
Copper bolt.....	1, 016. 80
Cap on pipe.....	1, 020. 87

ONAWA QUADRANGLE.

[Latitude 42°-42° 15'; longitude 96°-96° 15'.]

From point near Decatur northerly along Missouri River to point near Sloan.

Decatur, in corner of W. S. Page's lot, on west side of Broadway, 62 feet south of Sixth Street; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 135 1):	
Copper bolt.....	1, 062. 94
Cap on pipe.....	1, 067. 01

Decatur, 6 miles north of, at foot of Blackbird's Hill, 15 feet up from point where wagon road down the hill turns down river, about 100 feet south of small spring brook; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 137 1):

	Feet.
Copper bolt.....	1,067.78
Cap on pipe.....	1,071.84

Omaha Mission, near foot of bluff, on small spur about 8 feet higher than the bottom land, 50 feet from road along foot of bluff, 400 feet northeast of mission house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 138 1):

Copper bolt.....	1,075.48
Cap on pipe.....	1,079.48

Winnebago Reservation, near south line of, where it comes to river, 35 feet back from edge of bluff, 360 feet north of spring brook, 50 feet higher than bottom land; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 139 1):

Copper bolt.....	1,122.00
Cap on pipe.....	1,126.06

PENDER QUADRANGLE.

[Latitude 42°-42° 30'; longitude 96° 30'-97°.]

From point near McCook northwesterly along Missouri River to point 4 miles south of Jefferson.

McCook Lake, opposite upper end of cut-off forming, where river turns east, 1 mile from river, on west side of road straight out from river, 1,200 feet north of David Clark's residence, in southeast corner of school yard; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 360 1):

Copper bolt.....	1,106.00
Cap on pipe.....	1,110.07

RULO QUADRANGLE.

[Latitude 40°-40° 15'; longitude 95° 15'-95° 30'.]

From point near State line between Kansas and Nebraska northerly along Missouri River to point near Arago.

Kansas-Nebraska State line, 0.5 mile north of, at foot of bluff, at north side of wide ravine, 132 feet west of railroad, on small plateau (former site of farmhouse), 86 feet from magnificent elm tree, 3 feet in diameter; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 98 1):

Copper bolt.....	878.40
Cap on pipe.....	882.45

Rulo, at west side of Commercial Street, 170 feet south of south line of Stutzen Street, 1,500 feet below railroad bridge, in dooryard of John Stull; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 99 1):

Copper bolt.....	858.35
Cap on pipe.....	862.40

Arago, 3 miles below, in woods at foot of bluff, 4 feet south of fence on north line of sec. 30, T. 1 N., R. 15 E., 1,330 feet N. 2° E. (mag.) from R. K. Durfee's brick dwelling house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 100 1):

Copper bolt.....	865.26
Cap on pipe.....	869.32

Arago, south side of Main Street, 820 feet from river, in corner of dooryard of Charles Strickler; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 101 1):	Feet.
Copper bolt.....	904. 18
Cap on pipe.....	908. 25
Arago, 4.8 miles above, at foot of bluff, at side of wagon road leading from river up narrow valley, 300 feet above mouth of creek, 120 feet from river, large house 0.25 mile up valley belongs to Cottier; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 102 1):	
Copper bolt.....	873. 60
Cap on pipe.....	877. 65

TEKAMAH QUADRANGLE.

[Latitude 41° 30'-42°; longitude 96°-96° 30'.]

From point near Newton northerly along Missouri River to point near Decatur.

Newton, 0.5 mile south of, opposite River Sioux, Iowa, in southwest corner of NW. $\frac{1}{4}$ sec. 12, T. 21 N., R. 11 E., on premises of W. B. Newton; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 131 1):	
Copper bolt.....	1, 030. 29
Cap on pipe.....	1, 034. 35
T. 21 N., R. 11 E., SE. $\frac{1}{4}$ sec. 12, 690 feet south of northeast corner, on west side of road, on premises of M. Shafer; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 131 2):	
Copper bolt.....	1, 030. 95
Cap on pipe.....	1, 034. 95
Decatur, 10 miles below, near foot of bluff, 30 feet east of southwest corner of sec. 19, T. 22 N., R. 11 E., on premises of Bent. Gilbert; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 132 1):	
Copper bolt.....	1, 037. 76
Cap on pipe.....	1, 041. 78
T. 22 N., R. 11 E., on east side of north-south section-line road between secs. 22 and 23, 0.25 mile north of southwest corner of sec. 23, 0.8 mile from river, on premises of Peter Mar; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 132 2):	
Copper bolt.....	1, 032. 39
Cap on pipe.....	1, 036. 46
Decatur, 5 miles south of, on side of bluff near foot, 210 feet west of road running along foothills, on north side of sec. 31, T. 23 N., R. 11 E., 40 feet east of northwest corner of section, 0.5 mile north of Golden Spring post office, on land of Stanton heirs; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 133 1):	
Copper bolt.....	1, 102. 87
Cap on pipe.....	1, 106. 94
T. 23 N., R. 11 E., 0.25 mile east of northwest corner of sec. 34, in dooryard of C. A. Sprague; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 133 2):	
Copper bolt.....	1, 039. 74
Cap on pipe.....	1, 043. 81
Decatur, 3.5 miles south of, 25 feet south of section line between secs. 13 and 24, T. 23 N., R. 10 E., 1,485 feet west of northeast corner of sec. 24, on west side of road, at foot of bluff, on land owned by J. B. Walker; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 134 1):	
Copper bolt.....	1, 094. 09
Cap on pipe.....	1, 098. 15

TYNDALL QUADRANGLE.

[Latitude 42° 30'-43°; longitude 97° 30'-98°.]

From point 4.5 miles above Yankton westerly along Missouri River to Niobrara.

Antelope Point, opposite, on sloping nose between two small coulees, 100 feet back from edge of low sliding bluffs, 900 feet northeast of house; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 334 1):	Feet.
Copper bolt.....	1, 226. 27
Cap on pipe.....	1, 230. 35
Bon Homme Island, opposite foot of, just above large coulee, on bench land 200 feet from river; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 333 1):	
Copper bolt.....	1, 230. 82
Cap on pipe.....	1, 234. 90
Santee Agency, 2.25 miles below, 400 feet from river, just where it strikes bluffs, 100 feet above creek, 800 feet in front of house (white); copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 331 1):	
Copper bolt.....	1, 249. 58
Cap on pipe.....	1, 253. 64
Springfield, 2.5 miles above, 1.5 miles below head of bottom, in mouth of large coulee, 50 feet west of shack; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 328 1):	
Copper bolt.....	1, 222. 97
Cap on pipe.....	1, 227. 02

YANKTON QUADRANGLE.

[Latitude 42° 30'-43°; longitude 97°-97° 30'.]

From point 3 miles above Vermillion westerly along Missouri River to point 4.5 miles above Yankton.

St. James landing, 5 miles below, in bottom, 3,200 feet below end of timber, 2,300 feet from river, near fence around farmyard of F. W. Reifemath; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 346 1):	
Copper bolt.....	1, 151. 05
Cap on pipe.....	1, 155. 12
St. James landing, 2 miles below, in timber bottom, 150 feet northeast from log house of Theodore Witthouse, near road to river, 1,000 feet from river; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 344 1):	
Copper bolt.....	1, 149. 53
Cap on pipe.....	1, 153. 60
St. Helena, 1 mile above, near fence below creek, on slope into creek valley down which a wagon road leads across bridge over creek; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 341 1):	
Copper bolt.....	1, 247. 47
Cap on pipe.....	1, 251. 54
Campbell's Point, on slope of grassy knoll; copper bolt in tile surmounted by iron pipe (U. S. C. E. b. m. 339 1):	
Copper bolt.....	1, 223. 33
Cap on pipe.....	1, 227. 40

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