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CANCELLED

# RESULTS OF SPIRIT LEVELING IN IDAHO

1896 TO 1914, INCLUSIVE

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R. B. MARSHALL, CHIEF GEOGRAPHER



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# CONTENTS.

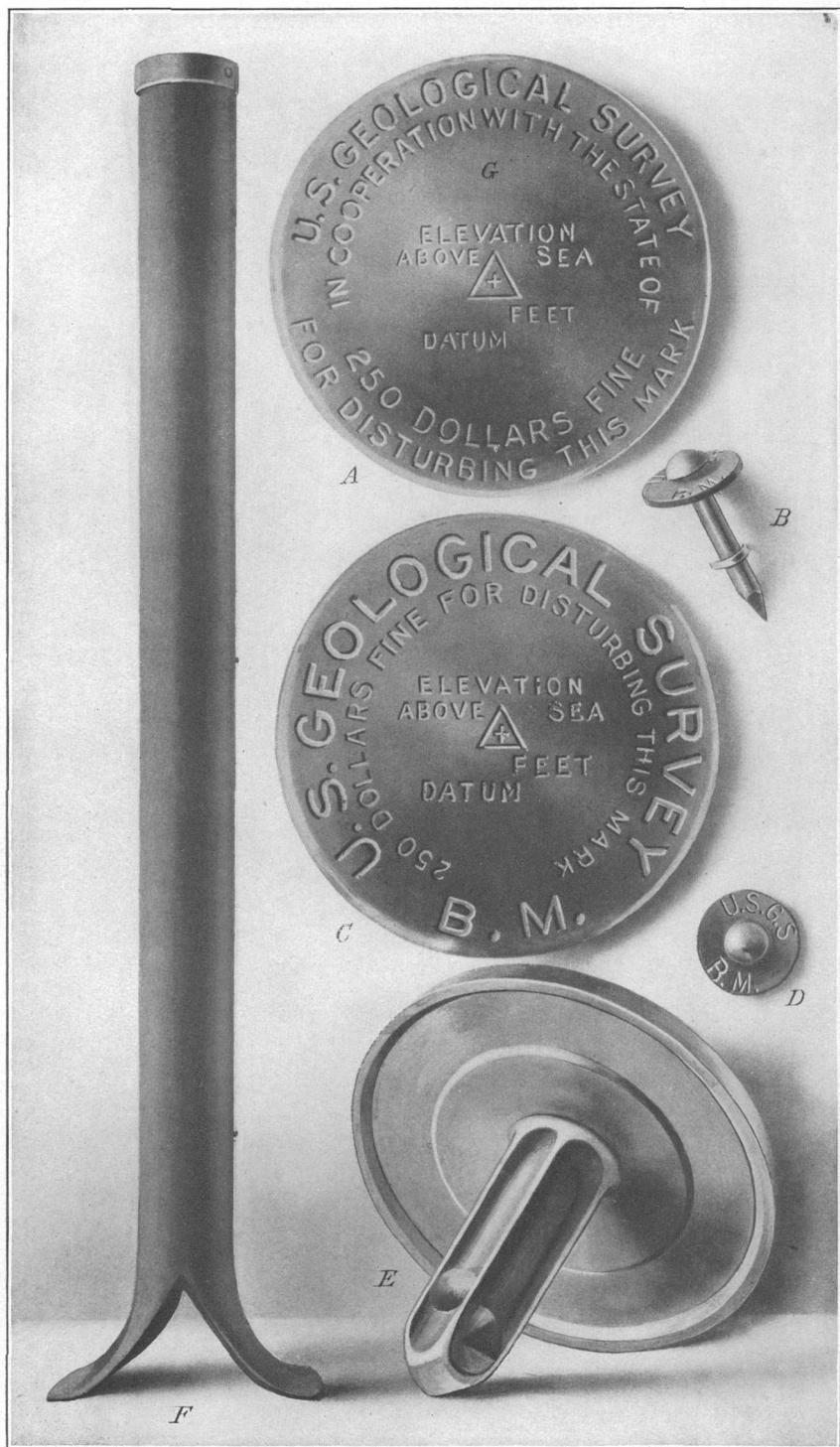
	Page.
Introduction.....	5
Previous publication.....	5
Personnel.....	5
Classification.....	5
Bench marks.....	6
Datum.....	6
Topographic maps.....	7
Precise leveling.....	7
Birch Creek and Weiser quadrangles (Canyon and Washington counties).....	7
Primary leveling.....	8
Cambridge, Meadows, Squaw Creek, and Weiser quadrangles (Boise and Washington counties).....	8
St. Anthony and Victor quadrangles (Fremont County).....	15
Crow Creek, Freedom, Henry, Lanes Creek, Montpelier, Pocatello, Slug Creek, Soda Springs, and Sterrett quadrangles (Bannock and Bear Lake counties).....	17
Hailey, Picabo, Sawtooth, and Soldier quadrangles (Blaine County).....	26
Arco, Bay Horse, Dickey, Mackay, May, Rabbit Foot, Salmon, Shelley, and Tilden quadrangles (Bingham, Blaine, Custer, and Lemhi counties).....	28
May and Salmon quadrangles (Lemhi County).....	42
Chatcolet, Fernwood, and Taft quadrangles (Kootenai and Shoshone counties).....	43
Asotin, Bovill, Fish Creek, Kamiah, Kendrick, Lapwai, Pot Mountain, Pullman, Summit Lake, The Crag Mountains, and Weippe quadrangles (Idaho and Nez Perce counties).....	50
Mink Creek quadrangle (Oneida County).....	65
Ammon, Hatch, Henry, Lanes Creek, Soda Springs, and Sterrett quadrangles (Bannock, Bingham, and Oneida counties).....	72
Cataldo and Rathdrum 30' quadrangles and Cœur d'Alene special quadrangle (Kootenai and Shoshone counties).....	78
Bonners Ferry, CălisPELL, Pend Oreille, and Sandpoint quadrangles (Bonner and Kootenai counties).....	92
Priest Lake quadrangle (Kootenai County).....	95
Bruneau, Mountain Home, Riddle, and Tindall quadrangles (Elmore and Owyhee counties).....	98
Appendix A: Elevations adjusted by the Coast and Geodetic Survey from precise leveling.....	108
Appendix B: Secondary elevations.....	121
Index.....	127

## ILLUSTRATION.

---

	Page.
PLATE I. Geological Survey bench marks.....	5
4	





## 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 IDAHO, 1896 TO 1914, INCLUSIVE.

R. B. MARSHALL, Chief Geograpner.

## INTRODUCTION.

*Previous publication.*—All results of spirit leveling in Idaho published by the United States Geological Survey in Bulletin 487 and all results of later work in the State are included in this report. Most of the elevations are based on the precise-level line of the U. S. Coast and Geodetic Survey from Seattle, Wash., via Pocatello, Idaho, to Evanston, Wyo., and have been corrected to agree with the adjustment made by that bureau in 1912.

*Personnel.*—The field work previous to 1903 was done under the general direction of R. U. Goode, geographer; that for 1903 to 1906, inclusive, under E. M. Douglas, geographer; that for 1907 under R. B. Marshall, geographer; and the later work under T. G. Gerdine, geographer, under the general direction of R. B. Marshall, chief geographer. Credit is given to the respective levelmen in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, and since 1907 under the general direction of E. M. Douglas, geographer.

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

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

The tablets, as well as the caps on the iron posts, are appropriately lettered, and for cooperating States the fact of such cooperation 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 of the mean of all the low tides, which is called 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 great accuracy is desired they must extend over several years. At ocean stations half-tide level and 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 sea coast is still uncertain, and this fact is indicated by the addition of a letter or a word to the right of the word "Datum" on tablets or posts. For such areas corrections of 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 Idaho have been published by the United States Geological Survey up to December 31, 1914. They may be obtained, except as noted, for 10 cents each or \$3 for fifty, on application to the Director of the Survey at Washington, D. C.

Bear Valley.	Mountain Home.
Bisuka.	Nampa (Idaho-Oregon).
Boise.	Oakesdale (Washington-Idaho).
Camas Prairie.	Priest Lake.
Cœur d'Alene special (Idaho-Montana)	Pullman (Idaho-Washington).
(20 cents).	Rathdrum.
Garden Valley.	Rocky Bar.
Hailey.	Sandpoint.
Hamilton (Montana-Idaho).	Sawtooth.
Idaho Basin.	Silver City.
Lolo.	Slug Creek.
Meadows.	Spokane (Washington-Idaho).
Missoula (Montana-Idaho).	Squaw Creek.
Mitchell Butte (Oregon-Idaho).	Weiser (Idaho-Oregon).

### PRECISE LEVELING.

#### Birch Creek and Weiser quadrangles.

#### CANYON AND WASHINGTON COUNTIES.

The elevations in the following list are results of a line of precise leveling begun at Huntington, Oreg., and run southeast along the Oregon Short Line Railroad in Idaho to Ontario, Oreg. This line was redetermined by the Coast and Geodetic Survey, being part of its transcontinental line of precise leveling, and was corrected to accord with the heights obtained by the 1912 adjustment.

The double simultaneous method of leveling was employed, using a Van Orden type of precise level and special rods.

The leveling was done in 1903 by C. H. Semper.

For results along this line in Oregon see Bulletin 556.

#### BIRCH CREEK QUADRANGLE.

[Latitude 44°-44° 30'; longitude 117°-117° 30'.]

From point near Huntington, Oreg., south along Oregon Short Line R. R. to Eaton, Idaho.

	Feet.
Huntington, 5.2 miles east of, on north side of railroad, at first telegraph pole west of milepost 536, 8 feet from fence; iron post stamped "2069 H".	2, 077. 380
Huntington, 8.1 miles east of, between track and milepost 533, 18 feet east of track; iron post stamped "2070 H".....	2, 077. 832

	Feet.
Old's Ferry, 2.2 miles east of, on north side of railroad, 70 feet west of seventh telegraph pole east of milepost 530, 10 feet north of track; iron post stamped "2086 H" .....	2, 093. 865
Old's Ferry, 5.2 miles east of, on north side of railroad, 15 feet east of fifth telegraph pole east of milepost 527, 10 feet north of track; iron post stamped "2087 H" .....	2, 094. 800
Eaton, at road crossing; top of rail. ....	2, 104. 5
Eaton, 0.3 mile southeast of, at milepost 524, on west side of track, at fence line; iron post stamped "2097 H" .....	2, 104. 771

**WEISER QUADRANGLE.**

[Latitude 44°-44° 30'; longitude 116° 30'-117°.]

**From Eaton along Oregon Short Line R. R. to point 2.2 miles south of Payette.**

Eaton, 3.2 miles southeast of, first telegraph pole west of milepost 521, at fence line; iron post stamped "2122 H" .....	2, 130. 273
Weiser, 13.6 feet west of new station, 41.3 feet north of track, just inside of park, on fence line; iron post stamped "2107 H" .....	2, 116. 317
Weiser, in front of station; top of rail. ....	2, 114. 3
Weiser, 3.3 miles south of, 4 feet north of milepost 515, west of track; iron post stamped "2113 H" .....	2, 120. 986
Weiser, 6.3 miles south of, first telegraph pole south of milepost 512, at fence line west of track; iron post stamped "2112 H" .....	2, 120. 269
Crystal, in front of station sign; top of rail. ....	2, 123. 4
Crystal, 2.6 miles south of, first telegraph pole north of milepost 509, at fence line west of track; iron post stamped "2123 H" .....	2, 131. 266
Payette, 0.9 mile north of, at fence line west of track, 27 feet south of milepost 506; iron post stamped "2139 H" .....	2, 146. 848
Payette, in front of station; top of rail. ....	2, 147. 7
Payette, 2.2 miles south of, 285 feet south of milepost 503, 10 feet east of track; iron post stamped "2139 H" .....	2, 147. 641

**PRIMARY LEVELING.****Cambridge, Meadows, Squaw Creek, and Weiser quadrangles.****BOISE AND WASHINGTON COUNTIES.**

The elevations in the following list are based on the 1912 adjusted elevation of Bench Mark G<sub>6</sub> of the Coast and Geodetic Survey at Weiser, Idaho, on the transcontinental line of precise levels.

The leveling in the Squaw Creek quadrangle was done by D. A. Maxwell in 1907, and that in the other quadrangles by Maxwell and J. G. Hefty in the same year. A check line was run in the Weiser quadrangle in 1908 by W. B. Jones.

**WEISER QUADRANGLE.**

[Latitude 44°-44° 30'; longitude 116° 30'-117°.]

**From Weiser along Pacific & Idaho Northern Ry. east 11.7 miles (checked line), thence north to Midvale (mean of direct and reverse lines).**

	Feet.
Weiser, in west wall of brick building occupied by the Masonic Lodge, 9.84 feet (3 meters) north of the southwest corner and 3.94 feet (1.2 meters) above ground; copper bolt leaded in wall, stamped "U. S. B. M." (C. & G. S. b. m. G <sub>6</sub> ) .....	2, 122. 004

	Feet.
Weiser, in west wall of brick courthouse at Oldtown, about 1 mile east of railroad station; red metal disk lettered "C. & G. S. B. M. H <sub>6</sub> ," set flush with surface.....	<sup>1</sup> 2, 119. 009
Weiser, 2 miles east of, 10 feet south of track, in foot of milepost 2; spike head level with ground.....	2, 118. 28
Weiser, 3.8 miles east of, 50 feet north of track, at edge of right of way, opposite milepost 4; iron post stamped "2136 W".....	2, 136. 977
Weiser, 5 miles east of, south side of track, in foot of milepost 5; spike.....	2, 149. 30
Weiser, 5.8 miles east of, south side of track, in foot of milepost 6; spike....	2, 159. 58
Weiser, 6.8 miles east of, 50 feet north of track, at edge of right of way, opposite milepost 7, 30 feet east of wagon road crossing railroad at right angles, about 300 feet north of large yellow house; iron post stamped "2167 W".....	2, 167. 768
Weiser, 9.8 miles east of, 50 feet north of track, opposite milepost 10, at mouth of Weiser River Canyon, 1,000 feet southeast of unused smelter, in outcropping bowlder; aluminum tablet stamped "2210 W".....	2, 211. 007
Weiser, 10.8 miles east of, 10 feet south of track, in foot of milepost 11; spike.....	2, 216. 41
Weiser, 12.9 miles northeast of, 9 feet west of track, 165 feet north of milepost 13, at foot of low retaining wall along upper side of grade, 100 feet from river, in top of large flat basalt bowlder on east side of rocky bluff, 1,800 feet south of mouth of large stream from east; aluminum tablet stamped "2249 W".....	2, 250. 746
Weiser, 15.9 miles northeast of, opposite milepost 16, 40 feet south of track, near mound of rocks, in large basaltic bowlder, aluminum tablet stamped "2275 W".....	2, 275. 707
Weiser, 19 miles northeast of, 600 feet north of milepost 19, north side of dry gulch, 50 feet west of track, on point of knoll, in volcanic bowlder beside mound of rocks; aluminum tablet stamped "2338 W".....	2, 338. 940
Midvale, 9.5 miles south of, 270 feet north of milepost 22, near mouth of Thousand Spring Creek, 10 feet west of track, in large volcanic bowlder; aluminum tablet stamped "2373 W".....	2, 373. 621
Midvale, 8.5 miles south of, east side of track, in foot of milepost 23; spike..	2, 388. 75
Midvale, 6.5 miles south of, at sharp curve in track, 18 feet northeast of milepost 25, 24 feet east of track, between track and river, near mound of rocks, in top of large bowlder; aluminum tablet stamped "2454 W"...	2, 455. 241
Midvale, 4.5 miles south of, east side of track, in base of milepost 27; spike.	2, 502. 15
Diamond Springs, in front of section house; top of rail.....	2, 507. 4
Midvale, 3.5 miles south of, 85 feet north of milepost 28, 14 feet east of track, beside a cairn of rock, top of volcanic bowlder; aluminum tablet stamped "2514 W".....	2, 515. 301
Midvale, 1.5 miles south of, 45 feet west of track, in base of telegraph pole (milepost 30); spike.....	2, 528. 81
Midvale, 0.5 mile south of, 45 feet west of track, in foot of telegraph pole (milepost 31); spike.....	2, 533. 60
Midvale, cement block building occupied by Bank of Washington County, at outer entrance, on south side and inner face of entrance, about 4.5 feet above floor; aluminum tablet stamped "2544 W".....	2, 545. 133

<sup>1</sup> The corner of building is cracked just above the bench mark from settling. The Coast and Geodetic Survey elevation was therefore not accepted.

## From Midvale east along road to J. R. McMahan's ranch.

Feet.

Midvale, 3.5 miles east of, on Midvale-Indian Valley road, 1,000 feet east of Richard Gaber's ranch house, 80 feet south of road and 40 feet south of wire fence in field, in volcanic boulder, near mound of rocks; aluminum tablet stamped "2724 W" .....	2, 726. 671
Midvale, 7 miles east of, on Indian Valley-Midvale road, 10 feet south of road, in base of fencepost; 30-penny nail with aluminum tag .....	3, 211. 40
T. 13 N., R. 2 W., sec. 21, 10.7 miles west of Indian Valley-Midvale crossroads 1,000 feet east of ranch, 40 feet south of road, at mound of rocks, in top of volcanic boulder; aluminum tablet stamped "3292 W" .....	3, 294. 420
T. 13 N., R. 2 W., secs. 23 and 24, 7.2 miles west of Indian Valley-Midvale crossroads, 40 feet south of county road, at J. R. McMahan's ranch, 200 feet north of house, in volcanic boulder; aluminum tablet stamped "3245 W" .....	3, 247. 279

## CAMBRIDGE QUADRANGLE.

[Latitude 44° 30'-45°; longitude 116° 30'-117°.]

## From Midvale northeast along Pacific &amp; Idaho Northern Ry. to milepost 56.

Midvale, 3.2 miles north of, 9 feet north of telegraph milepost 35, 40 feet west of track, 10 feet above and 40 feet north of small creek; iron post stamped "2587 W" .....	2, 587. 717
Midvale, 4.2 miles north of, 25 feet southwest of milepost 36, 75 feet west of track; point on large boulder .....	2, 590. 91
Trestle 30, northeast corner; bolthead marked with chiseled cross .....	2, 597. 27
Midvale, 6.2 miles north of, 80 feet north of milepost 38, west side of track, in face of large volcanic boulder; aluminum tablet stamped "2620 W" .....	2, 621. 233
Midvale, 7.2 miles north of, 140 feet west of trestle 32, 450 feet south of milepost 39, on slope of rock; chisel mark .....	2, 623. 80
Cambridge, 70 feet north of station, at edge of right of way, corner of lot on south side of central boulevard, at edge of sidewalk; iron post stamped "2651 W" .....	2, 651. 797
Cambridge, 3.8 miles north of, 1,800 feet north of milepost 44, at short rock cut near end of long low spur from main ridge to west, 20 feet west of track, top of bank, 8 feet above level of track, in outcropping rock; aluminum tablet stamped "2700 W" .....	2, 700. 369
Cambridge, 6.5 miles north of, 600 feet north of trestle 42 across small creek at point of hill, 10 feet west of track, in cap of box culvert; driftbolt marked with chiseled cross .....	2, 718. 80
Cambridge, 7.5 miles north of, 1.5 miles south of Goodrich Creek, 120 feet east of telegraph pole marked "48 miles," 40 feet west of track, on volcanic boulder 2.5 by 2.5 by 1 foot, near mound of rocks; aluminum tablet stamped "2736 W" .....	2, 736. 447
Cambridge, 8.5 miles north of, 150 feet south of milepost 49, 70 feet east of track, in root of lone leaning cottonwood tree in field; nail .....	2, 736. 76
Council, 8.5 miles south of, 100 feet south of railroad bridge 47 across Weiser River, 20 feet west of track, in cement at surface of ground; aluminum tablet stamped "2782 W" .....	2, 782. 849
Council, 5.5 miles south of, 300 feet south of road crossing, 100 feet west of track; point on large boulder .....	2, 819. 70
Council, 5 miles south of, 20 feet west of milepost 55, 8 feet south of track, 100 feet west of trestle 49, in face of solid rock wall 20 feet high, 5 feet above ground, in cement wall flush with surface; aluminum tablet stamped "2860 W" .....	2, 860. 376

**Along Indian Valley-Van Wyck road, near Van Wyck.**

Feet.

T. 14 N., R. 2 E., in sec. 25, on Indian Valley road, Lookout Mountain, in volcanic boulder; aluminum tablet stamped "7811 W".....	7, 812. 885
Van Wyck, 7.8 miles west of, in saddle 10 feet south of Van Wyck-Indian Valley road, in pine tree; 30-penny nail.....	7, 379. 769
Van Wyck, 8.9 miles west of, 30 feet south of Van Wyck-Indian Valley road, in pine tree; 30-penny nail with aluminum tag.....	7, 020. 518
Van Wyck, 10.2 miles west of, 50 feet east of Van Wyck-Indian Valley road, in pine tree; nail.....	6, 565. 89
Van Wyck, 10.8 miles west of, near center of sec. 34, T. 14 N., R. 2 E., 30 feet north of Van Wyck-Indian Valley road, 150 feet south of Sheep Creek, in top of volcanic boulder; aluminum tablet stamped "6210 W".....	6, 212. 154

**MEADOWS QUADRANGLE.**

[Latitude 44° 30'-45°; longitude 116°-116° 30'.]

**From milepost 56 north along Pacific & Idaho Northern Ry. to triangulation station 2 miles north of Council.**

Council, 4 miles south of, 10 feet east of track, in base of milepost 56; spike.....	2, 916. 69
Council 2.5 miles south of, sec. 27, T. 16 N., R. 1 W., county road crossing, just north of Cottonwood Creek, 25 feet east of track, east of crossing signpost; iron post stamped "2939 W".....	2, 940. 600
Council, 300 feet southeast of station, at foot of and at north side of main street of town, in angle of sidewalk and cross walk; iron post stamped "2910 W".....	2, 911. 564
Council, in front of station; top of rail.....	2, 914. 3

**From triangulation station 2 miles north of Council east along road to crossroads in T. 17 N., R. 3 E., thence northwest along road to Meadows, thence southwest to point near Council.**

Council, 2.8 miles north of, on line between secs. 34 and 35, T. 17 N., R. 1 W., intersection of Council-Meadows and Mill Creek roads, 300 feet northeast of ranch house, west edge of road near fence; iron post stamped "3015 W".....	3, 016. 280
Council, 6.2 miles northeast of, 1,000 feet east of line between secs. 31 and 32, T. 17 N., R. 1 E., at August Baurer's sawmill, between house and sawmill, south side of road, 100 feet north of Mill Creek, in top of large boulder; aluminum tablet stamped "4023 W".....	4, 024. 464
Council, 7.8 miles east of, in fir tree 15 feet north of road; 20-penny spike....	4, 856. 17
Council, 9.6 miles northeast of, near southwest corner of sec. 22, T. 17 N., R. 1 E., intersection of roads in saddle, 50 feet east of forks, 10 feet north of road, in volcanic boulder; aluminum tablet stamped "5612 W".....	5, 613. 751
Council, 10.1 miles northeast of, in base of pine tree 5 feet south of road; spike.....	5, 941. 58
Council, 10.3 miles northeast of, in base of fir tree 6 feet south of road; spike.....	6, 036. 88
Council, 10.6 miles northeast of, NW $\frac{1}{4}$ sec. 26, T. 17 N., R. 1 E., 50 feet east of road, on Miller Summit, at mound of rocks, in volcanic rock; aluminum tablet stamped "6208 W".....	6, 209. 224
Mill Creek Summit, 0.6 mile east of, in base of fir tree 3 feet south of road; spike.....	6, 281. 85
Mill Creek Summit, 1.2 miles east of, in base of balsam tree 3 feet west of road; nail.....	6, 335. 97
Mill Creek Summit, 1.8 miles east of, in fir tree 10 feet west of road; spike...	6, 306. 99
Mill Creek Summit, 3 miles northeast of, in balsam fir tree 10 feet south of road; 20-penny spike.....	6, 307. 09



	Feet.
Mill Creek Summit, 3.6 miles east of, near quarter corner between secs. 6 and 31, Tps. 16 and 17 N., R. 2 E., 100 feet southeast of road, 100 feet west of east fork of Weiser River, in top of granite boulder; aluminum tablet stamped "6245 W".....	6, 246. 498
Mill Creek Summit, 4.5 miles east of, in tamarack tree 15 feet west of road; nail.....	6, 265. 84
Mill Creek Summit, 5.4 miles northeast of, in pine tree 20 feet north of road; nail.....	6, 399. 46
Mill Creek Summit, 6.6 miles east of, in base of fir tree 5 feet northeast of road; nail.....	6, 527. 69
T. 17 N., R. 2 E., NW. $\frac{1}{4}$ sec. 27, 120 feet east of road, at mound of rocks, in saddle, in volcanic rock; aluminum tablet stamped "6521 W".....	6, 522. 985
Long Valley Summit, 0.9 mile east of, 10 feet west of road, in fir tree; nail..	5, 977. 33
Long Valley Summit, 1.4 miles east of, 10 feet east of road, in fir tree; nail..	5, 535. 099
Long Valley Summit, 2.4 miles east of, 10 feet north of road, in fir tree; nail.	5, 006. 749
Long Valley Summit, 3.9 miles east of, SW. $\frac{1}{4}$ sec. 19, T. 17 N., R. 3 E., junction of Long Valley and Mill Creek roads, northeast corner of James Hartsel's fence, 1,700 feet east of house, 175 feet west of Payette River, 1,320 feet northeast of section corner; iron post stamped "4837 W".....	4, 838. 743
Long Valley Summit, 5.3 miles east of, corner of secs. 18, 19, 29, and 30, T. 17 N., R. 3 E., in base of southeast corner fence post, at crossroads; nail with aluminum tag.....	4, 889. 67
Long Valley Summit, 8.3 miles east of, sec. 22, T. 17 N., R. 3 E., 500 feet south of log house, 5 feet north of road, at southeast corner of fence; iron post stamped "4897 W".....	4, 898. 870
Long Valley Summit, 12.2 miles northeast of, in sec. 33, T. 18 N., R. 3 E., 50 feet southeast of road, in Sam Shaw's field, about 1,200 feet north of Tom Yount's house, 1,600 feet east of Gabriel Maenpad's house, in top of granite boulder; aluminum tablet stamped "5029 W".....	5, 030. 623
Long Valley Summit, 14.2 miles northeast of, 10 feet west of road, in base of pine tree; nail.....	5, 093. 48
Long Valley Summit, 14.9 miles northeast of, 10 feet west of road, in pine tree; nail.....	5, 074. 20
Old Lardo, sec. 9, T. 18 N., R. 3 E., 16.4 miles northeast of Long Valley Summit, south end of Payette Lake, 500 feet south of McCall Hotel, 200 feet north of sawmill, 20 feet south of road, in top of volcanic boulder, near mound of rocks; aluminum tablet stamped "5030 W".....	5, 031. 121
Old Lardo, in front of McCall Hotel; high-water mark.....	4, 990
Old Lardo, Payette Lake; surface of water July 30, 1907.....	4, 985. 9
Lardo, 400 feet east of post office, in sec. 8, T. 18 N., R. 3 E., 17.5 miles northeast of Long Valley Summit, 100 feet south of Payette Lake, 50 feet south of Lardo-Roseberry road, in granite boulder; aluminum tablet stamped "5001 W".....	5, 002. 464
Lardo, 1 mile west of, 25 feet south of Lardo-Meadows stage road, in yellow-pine tree; nail.....	5, 050. 76
Lardo, 2 miles west of, 20 feet west of Lardo-Meadows stage road, in pine tree; nail.....	5, 181. 11
Lardo, 2.5 miles west of, sec. 1, T. 18 N., R. 2 E., on Payette River and Salmon Creek divide, about 80 feet north of Lardo-Meadows stage road, 20 feet above road, in top of granite boulder; aluminum tablet stamped "5352 W".....	5, 353. 116
Lardo, 3.7 miles west of, south side of Lardo-Meadows stage road, in black-pine tree; nail.....	5, 105. 24
Lardo, 4.8 miles west of, east of Lardo-Meadows stage road, in pine tree; nail.	5, 052. 50

Feet.

Lardo, 5.8 miles west of, near center of sec. 34, T. 19 N., R. 2 E., on Lardo-Meadows stage road, on Meadows Summit, in saddle 70 feet north of road, in top of granite bowlder; aluminum tablet stamped "5093 W" .....	5, 094. 045
Lardo, 6.4 miles west of, east of Lardo-Meadows stage road, in fir tree; nail. ....	4, 731. 15
Lardo, 7 miles west of, north of Lardo-Meadows stage road, in pine tree; nail. ....	4, 354. 96
Meadows, south side of main street of town, north edge of sidewalk, north-east corner of porch at Meadows Hotel; iron post stamped "3975 W" .....	3, 976. 535
Meadows, 3.3 miles west of, on line between secs. 14 and 23, T. 19 N., R. 1 E.; on Council-Meadows stage road, 0.4 mile west of Little Salmon River, 100 feet north of road, 800 feet northeast of sawmill, in rock beside mound of rocks; aluminum tablet stamped "3964 W" .....	3, 965. 486
Meadows, 4.4 miles west of, 10 feet south of Council-Meadows road, in pine tree; nail. ....	4, 030. 97
Meadows, 5.4 miles west of, north of Council-Meadows road, in pine tree; nail. ....	4, 020. 51
Meadows, 6.9 miles west of, sec. 17, T. 19 N., R. 1 E., on Council-Meadows stage road, at north end of Price Valley, on summit between Little Salmon and Weiser rivers, 100 feet east of road, in top of volcanic rock near mound of rocks; aluminum tablet stamped "4186 W" .....	4, 187. 529
Meadows, 7.7 miles southwest of, 15 feet west of Council-Meadows stage road, in pine tree; nail. ....	4, 144. 29
Meadows, 9.9 miles southwest of, 50 feet west of Council-Meadows stage road, in pine tree; nail. ....	4, 108. 68
Meadows, 10.5 miles southwest of, in sec. 31, T. 19 N., R. 1 E., on Council-Meadows stage road, 1 mile south of Price Valley, at old sawmill site, 60 feet west of road, 50 feet north of small creek, in volcanic rock; aluminum tablet stamped "4089 W" .....	4, 090. 177
Meadows, 12.5 miles southwest of, 60 feet west of Council-Meadows stage road, in pine tree; nail. ....	3, 946. 30
Meadows, 13.8 miles southwest of, 100 feet east of railroad grade, 200 feet east of Weiser River, in fir tree; nail. ....	3, 972. 40
Evergreen, at terminal of Pacific & Idaho Northern Ry., in north part of sec. 30, T. 18 N., R. 1 E., 150 feet east of track, 200 feet directly east of Record Commercial Co.'s store, in top of volcanic bowlder; aluminum tablet stamped "3704 W" .....	3, 705. 047
Evergreen, 4.8 miles southwest of, sec. 2, T. 18 N., R. 1 W., 600 feet north of old sawmill, 300 feet north of track, at brow of hill, 200 feet northwest of log house, in volcanic bowlder near mound of rocks; aluminum tablet stamped "3302 W" .....	3, 303. 230
Starkey (Hot Springs), in front of station; top of rail. ....	3, 166. 2
Starkey (Hot Springs), sec. 34, T. 18 N., R. 1 W., 100 feet southeast of station, 80 feet south of track, in top of volcanic bowlder; aluminum tablet stamped "3172 W" .....	3, 172. 960
Starkey (Hot Springs), 3.3 miles south of, sec. 15, T. 17 N., R. 1 W., 200 feet west of milepost 66, 400 feet south of house, 100 feet west of railway cut, in top of volcanic bowlder near mound of rocks; aluminum tablet stamped "3065 W" .....	3, 066. 420
<b>From crossroads in T. 17 N., R. 3 E., south along road through Roseberry to Van Wyck, thence west 11.7 miles.</b>	
T. 17 N., R. 3 E., on line between secs. 23 and 26, 2.6 miles southeast of Lake Fork bridge, 40 feet south of Roseberry-Lardo stage road, 50 feet southeast of bridge across irrigation ditch; iron post stamped "4905 W" ..	4, 906. 274
Roseberry, near corner of secs. 11, 12, 13, and 14, T. 16 N., R. 3 E., in school yard opposite post office; iron post stamped "4871 W" .....	4, 872. 384

	Feet.
Tps. 15 and 16 N., R. 3 E., corner of secs. 1, 2, 35, and 36, on Roseberry-Van Wyck stage road, northwest corner of school yard, 300 feet southeast of Mr. Moore's house, 360 feet west of log house, in granite boulder; aluminum tablet stamped "4874 W" .....	4, 875. 812
Roseberry, 7.8 miles south of, near southwest corner of sec. 14, T. 15 N., R. 3 E., on Roseberry-Van Wyck stage road, 300 feet southwest of Joe Downing's house, 150 feet north of Dry Branch, 50 feet east of road, in volcanic boulder; aluminum tablet stamped "4822 W" .....	4, 823. 466
Roseberry, 11.4 miles south of, on line between secs. 2 and 3, T. 14 N., R. 3 E., on Roseberry-Van Wyck stage road, 0.5 mile south of Newton Marler house, 60 feet southeast of road, at corner of fence, in granite boulder; aluminum tablet stamped "4802 W" .....	4, 803. 300
Van Wyck, on Main Street, at northeast corner of C. B. Fisher's general store; iron post stamped "4777 W" .....	4, 778. 503
Van Wyck, 3.7 miles northwest of, near center of sec. 20, T. 14 N., R. 3 E., at road forks 100 feet west of sawmill road, 150 feet south of Van Wyck-Indian Valley road, near mound of rocks, in volcanic boulder; aluminum tablet stamped "4910 W" .....	4, 911. 275
Van Wyck, 4.7 miles west of, 10 feet north of Van Wyck-Indian Valley road, in pine tree; nail .....	5, 724. 81
Van Wyck, 5.8 miles west of, 10 feet north of Van Wyck-Indian Valley road, in pine tree; nail .....	6, 157. 29
Van Wyck, 6.8 miles west of, 20 feet north of Van Wyck-Indian Valley road, in fir tree; nail .....	6, 802. 16

**From Van Wyck east 3.7 miles to Norris ranch.**

Crawford, 1.8 miles east of Van Wyck, northeast corner of W. D. Patterson's yard, opposite post office, 100 feet from main street of town, in top of granite boulder; aluminum tablet stamped "4759 W" .....	4, 760. 644
Crawford, 1.9 miles east of, on section line at northwest corner of NE. $\frac{1}{4}$ sec. 29, T. 14 N., R. 4 E., at Anna J. Norris's ranch, 50 feet south of road, 30 feet southeast of house, in granite boulder; aluminum tablet stamped "4811 W" .....	4, 813. 008

**North along Indian Valley, Midvale, and Council roads to point near Indian Valley.**

T. 14 N., R. 1 W., on line between secs. 26 and 35, on Van Wyck, Midvale, and Indian Valley road, at Hillsdale crossroads, 150 feet east of white schoolhouse, at northwest corner of fence, 30 feet east of road, in volcanic boulder near mound of rocks; aluminum tablet stamped "3164 W" .....	3, 165. 959
Van Wyck, 34.4 miles northwest of, on Van Wyck, Midvale, and Indian Valley road, 100 feet north of Little Weiser River, 20 feet west of road; nail in knuckle of cottonwood tree .....	3, 029. 56
Indian Valley, near corner of secs. 10, 11, 14, and 15, T. 14 N., R. 1 W., southwest corner of blacksmith shop, east side of Main Street, in volcanic boulder; aluminum tablet stamped "2999 W" .....	3, 001. 289
Indian Valley, 3.7 miles north of, near center of sec. 27, T. 15 N., R. 1 W., on Indian Valley-Council road, at foot of Thorn Creek Hill, 150 feet north of Thorn Creek, 100 feet west of road, 500 feet east of Sam Wood's house, near mound of rocks, in boulder; aluminum tablet stamped "2931 W" .....	2, 933. 348
Indian Valley, 6.2 miles north of, NW. $\frac{1}{4}$ sec. 15, T. 15 N., R. 1 W., on Indian Valley-Council road, on middle fork of Weiser River summit, 30 feet east of road, near mound of rocks, in granite boulder; aluminum tablet stamped "3309 W" .....	3, 311. 311

	Feet.
Indian Valley, 7.3 miles north of, on Indian Valley-Council road, 50 feet south of creek, 3 feet east of bridge crossing of Middle Fork Creek, in cottonwood tree; nail.....	2,904.35

**SQUAW CREEK QUADRANGLE.**

[Latitude 44°-44° 30'; longitude 116°-116° 30'.]

**In T. 13 N., R. 1 W.**

Van Wyck, 29.6 miles west of, T. 13 N., R. 1 W., 500 feet northeast of cross-roads, 100 feet east of Van Wyck-Indian Valley road, in top of volcanic boulder beside mound of rocks; aluminum tablet stamped "3395 W"...	3,396.829
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**From point 11.7 miles west of Van Wyck southwest to Canyon Hill, sec. 27, T. 13 N., R. 1 E., thence northwest along Indian Valley road to junction of Midvale road.**

Van Wyck, 12.8 miles west of, 30 feet east of Van Wyck-Indian Valley road, in tree; nail.....	5,907.20
Van Wyck, 12.8 miles west of, 20 feet east of Van Wyck-Indian Valley road, in tree; 30-penny nail.....	5,637.60
Van Wyck, 13.6 miles west of, 30 feet east of Van Wyck-Indian Valley road, in pine tree; 30-penny nail.....	5,949.21
Van Wyck, 15.3 miles west of, 50 feet south of Van Wyck-Indian Valley road, on Four-bit summit, near mound of rock, in volcanic rock; aluminum tablet stamped "6154 W".....	6,155.570
Van Wyck, 16.6 miles west of, 10 feet west of Van Wyck-Indian Valley road, in pine tree; 30-penny nail.....	5,372.51
Van Wyck, 17.9 miles west of, 70 feet north of Van Wyck-Indian Valley road, in pine tree; 30-penny nail.....	4,743.91
Van Wyck, 19.1 miles west of, 10 feet north of Van Wyck-Indian Valley road, in pine tree; 30-penny nail.....	4,494.82
Van Wyck, 19.2 miles west of, 0.5 mile west of Courtright's house, 60 feet south of Van Wyck-Indian Valley road, in top of volcanic boulder, near mound of rocks; aluminum tablet stamped "4464 W".....	4,465.383
Van Wyck, 20.4 miles west of, in pine tree, 40 feet north of Van Wyck-Indian Valley road; 30-penny nail.....	4,136.98
Van Wyck, 21.6 miles west of, 150 feet south of Van Wyck-Indian Valley road, on Canyon Hill summit, in volcanic boulder, near mound of rocks; aluminum tablet stamped "4375 W".....	4,376.822
Van Wyck, 23 miles west of, on Van Wyck-Indian Valley road, on top of boulder 2 by 2 by 3 feet; chisel mark.....	3,833.91
Van Wyck, 26 miles west of, 0.4 mile southeast of junction of Indian Valley and Midvale roads, in rim of rock, in top of volcanic rock; aluminum tablet stamped "3409 W".....	3,410.941

**From Little Weiser River west along Midvale road to McMahan ranch.**

Indian Valley-Midvale crossroads, 4.2 miles west of, at J. W. Stippich's ranch, 100 feet northeast of house, in corner of yard, in volcanic boulder; aluminum tablet stamped "3230 W".....	3,231.566
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**St. Anthony and Victor quadrangles.****FREMONT COUNTY.**

The elevations in the following list were determined by primary leveling extended from level net in Wyoming and accord with the 1912 adjustment.

The leveling was done in 1899 by Goyne Drummond.

## VICTOR QUADRANGLE.

[Latitude 43° 30'-44°; longitude 111°-111° 30'.]

From Idaho-Wyoming line near Victor west, north, and east to boundary monument  
192.

	Feet.
Idaho-Wyoming State line, at Trail Creek, 8 feet north of road; bronze tablet stamped "B. M. 6681".....	6, 684. 130
Spencer's house, 30 feet west of, 20 feet east of road, 250 feet north of Moses Creek; bronze tablet.....	6, 478. 250
Victor, Idaho, northeast corner of Porter's store; iron post.....	6, 208. 082
Chapin's house, 60 feet east of; iron post.....	6, 146. 589
Chapin's ranch, 2 miles northwest of, 100 feet north of channel of Darby Creek, 20 feet east of road; iron post.....	6, 125. 108
Drigg's house, 40 feet east of; iron post.....	6, 099. 709
Rigby's house, 1,000 feet northwest of, milepost 192, Wyoming-Idaho State line; iron post.....	6, 404. 651

From Drigg's via Kimball's and Swanner's ranches to Teton bridge.

Kimball's house, 1,150 feet southwest of; iron post.....	6, 108. 143
Swanner's yard, northeast corner of; iron post.....	5, 976. 558

From Drigg's west along road to point 9 miles east of Teton.

Drigg's ranch, 3.5 miles north of, 80 feet east of new house; iron post.....	6, 158. 721
Lathron's house, 50 feet east and 300 feet south of ford, east of southwest corner of sec. 28, T. 6 N., R. 45 E., north side of road; iron post.....	6, 065. 117
Teton bridge, 400 feet east of, 6 feet from northwest corner of Alexander West's house; iron post.....	5, 932. 605
Teton bridge, 3.4 miles northwest of, top of divide between Teton River and Milk Creek; iron post.....	6, 195. 330
Teton bridge, 5.4 miles northwest of, 20 feet west of Milk Creek, 600 feet south of road fork; iron post.....	6, 072. 292
Teton bridge, 7.9 miles northwest of, top of divide between Milk Creek and Canyon Creek, 300 feet southwest of dugway out of Milk Creek; bronze tablet.....	6, 024. 736
Harris ranch, 3 miles northeast of, 30 feet north of road; iron post.....	5, 908. 519
Harris house, on west side of Canyon Creek; in sec. 13, T. 6 N., R. 42 E., 10 feet northeast of house; iron post painted "5639".....	5, 641. 904
Teton, 9 miles east of, 20 feet south of road, on spur fork southwest; iron post painted "5556".....	5, 558. 724

## ST. ANTHONY QUADRANGLE.

[Latitude 43° 30'-44°; longitude 111° 30'-112°.]

From point 9 miles east of Teton to Teton, thence north to St. Anthony (single spur line).

T. 7 N., R. 41 E., at quarter corner south side of sec. 34; iron post painted "5067".....	5, 069. 124
Teton, in south part of sec. 31, T. 7 N., R. 41 E., in front of post office, at southeast corner of lot 13, block 13; iron post painted "4950".....	4, 952. 783
St. Anthony, southwest corner of Washing and Bridge streets, at northwest corner of Baker's drug store, in stone post; bronze tablet.....	4, 965. 479

Crow Creek, Freedom, Henry, Lanes Creek, Montpelier, Pocatello, Slug Creek, Soda Springs, and Sterrett quadrangles.

#### BANNOCK AND BEAR LAKE COUNTIES.

The elevations in the following list are part of the results of leveling done in 1909 in Idaho, Utah, and Wyoming, and are based on a bench mark of the Coast and Geodetic Survey near Onyx, Bannock County, Idaho, the first given in the following list. The elevation of this bench mark is accepted as 4,620.171 feet above mean sea level. From Onyx the line was run over the Oregon Short Line R. R. to a point 3.5 miles south of Montpelier, thence south by road through Laketown and Randolph, Utah, to Evanston, Wyo., closing on the Coast and Geodetic Survey bench mark at that point.

The leveling in Montpelier, Pocatello, Slug Creek, Soda Springs, and Sterrett quadrangles was done in 1909 by L. F. Biggs. Additional leveling was done in 1911 in Montpelier quadrangle by O. G. Taylor and in Soda Springs quadrangle by D. S. Birkett. The leveling in Crow Creek quadrangle was done by Taylor; in Freedom quadrangle by Taylor and Birkett; and in Henry and Lanes Creek quadrangles by Birkett, all in 1911.

#### POCATELLO QUADRANGLE.

[Latitude 42° 30'–43°; longitude 112°–112° 30'.]

From point near Onyx along Oregon Short Line R. R. to Pebble.

	Feet.
Onyx, 1 mile north of, near signboard "1 mile to Onyx," west of third telephone pole south of milepost 197, 24 feet west of right-of-way fence on west side of track, red stone post 6 feet long and 6 inches square; bottom of square hole cut in top marked "U. S. $\square$ B. M." (C. & G. S. b. m. and 1911 preliminary adjustment value).....	4, 620. 171
McCammon, opposite station; top of east rail.....	4, 750. 3
McCammon, opposite point on the tracks 150 feet north of station, 20 feet southeast of third telephone pole north of schoolhouse, 225 feet west of track, 4 feet from fence on west side of main highway, in red stone post 6 feet long and 6 inches square; square cut hole marked "U. S. $\square$ B. M." (C. & G. S. b. m.).....	4, 754. 522
McCammon, southeast corner of McCammon Investment Co.'s building, 3 feet above ground, in corner stone; aluminum tablet stamped "4767 B 1909 A".....	4, 767. 861
McCammon, 2.6 miles southeast of, west side of track at turn east, in concrete foundation of semaphore 1888; aluminum tablet stamped "4834 B 1909 B".....	4, 834. 783
McCammon, 6.1 miles east of, 1 mile west of Topaz station, south side of track, 250 feet east of road crossing, in concrete culvert; aluminum tablet stamped "4925 B 1909 C".....	4, 926. 369
Renfro, 0.8 mile west of, northwest corner of north end wall of culvert 181 F, 7 feet north of westbound track (100 feet west of original U. S. G. S. b. m. in signal 1818); chiseled square.....	5, 017. 834
Lava, in front of station; top of rail.....	5, 147. 8

	Feet.
Lava, 0.2 mile north of, in southwest corner of south end wall of culvert 177A under Oregon Short Line R. R. track (200 feet east of original U. S. G. S. b. m.); chiseled square.....	5, 148. 387
Lava, 3.7 miles north of, east side of track, cemented in concrete foundation of semaphore 1734; copper nail and washer stamped "5225 B. M. F".....	5, 226. 153

**STERRETT QUADRANGLE.**

[Latitude 42° 30'-42° 45'; longitude 111° 45'-112°.]

**From Pebble along Oregon Short Line R. R. to point near Alexander.**

Pebble, 1.5 miles north of, north end wall of culvert 168A, under Oregon Short Line R. R.; chiseled circle and cross (150 feet east of original U. S. G. S. b. m.).....	5, 311. 981
Bancroft, 3.4 miles west of, south side of track, in concrete foundation of semaphore 1652; aluminum tablet stamped "5380 B 1909 H".....	5, 381. 420
Bancroft, in northeast corner of brick schoolhouse, 4 feet above ground; aluminum tablet stamped "5417 B 1909 I".....	5, 419. 103
Bancroft, in front of station; top of rail.....	5, 422. 8
Bancroft, 4 miles east of, north side of track, in concrete foundation of semaphore 1581; aluminum tablet stamped "5502 B 1909 J".....	5, 504. 264
Way, in front of station; top of rail.....	5, 586. 1

**SODA SPRINGS QUADRANGLE.**

[Latitude 42° 30'-42° 45'; longitude 111° 30'-111° 45'.]

**From point 7 miles north of Soda Springs south along highway to Soda Springs.**

Soda Springs, 7 miles north of, in sec. 8, T. 8 S., R. 42 E., intersection of Henry road with road leading east about 1 mile to ranch, 45 feet south of east-west road, 100 feet east of Henry road; spike in base of telephone pole on Geo. Doull's telephone line, marked "U. S. 6170 B. M. 56".....	6, 170. 54
Soda Springs, 5.6 miles north of, in sec. 17, T. 8 S., R. 42 E., 1.9 miles north of Threemile Knoll, 350 feet east of Henry road, in line of Geo. Doull's telephone line, 20 feet south of pole; iron post stamped "6126 1911 30".....	6, 126. 945
Soda Springs, 3.8 miles north of, in sec. 29, T. 8 S., R. 42 E., east side of Threemile Knoll, 125 feet east of Henry road, 55 feet northwest of fence corner, 0.25 mile southeast of small bridge over irrigation ditch, 20 feet north of road leading east along fence, 5 feet east by 10 feet south of post of Doull's telephone line; iron post stamped "6023 1911 31".....	6, 023. 953
Soda Springs, 1.5 miles north of, in sec. 30, T. 8 S., R. 42 E., 15 feet west of Henry road, 10 feet north of bridge over small irrigation ditch; point on top of basalt boulder, marked "U. S. 5885 B. M. 21".....	5, 886. 17
Soda Springs, in front wall of brick schoolhouse, near southwest corner of building; aluminum tablet stamped "5777 1909".....	5, 778. 640

**From point near Alexander southeast along Oregon Short Line R. R. to Rose.**

Alexander, 1.9 miles west of, south side of track, in concrete foundation of semaphore 1540; aluminum tablet stamped "5668 B 1909 K".....	5, 669. 804
Alexander, in front of station; top of rail.....	5, 732. 4
Soda Springs, 4 miles west of, west edge of track, in concrete foundation of semaphore 1496; aluminum tablet stamped "5730 B 1909 L".....	5, 731. 743
Soda Springs, in front of station; top of south rail.....	5, 778. 5
Soda Springs, southwest corner of schoolhouse, 4 feet above ground; aluminum tablet stamped "5777 B 1909 M".....	5, 778. 640
Soda Springs, 4 miles southeast of, south side of track, in concrete foundation of semaphore 1422; aluminum tablet stamped "5808 B 1909 N".....	5, 809. 076

## SLUG CREEK 15' QUADRANGLE.

[Latitude 42° 30'–42° 45'; longitude 111° 15'–111° 30'.]

From Rose along Oregon Short Line R. R. to Novene.

Feet.

Rose, 1.5 miles southeast of, southwest corner of bridge over Bear River, in concrete abutment; aluminum tablet stamped "5807 B 1909 O".....	5, 808.978
Manson, 2.3 miles southeast of, south side of track, in concrete foundation of semaphore 1336; aluminum tablet stamped "5853 B 1909 P".....	5, 854.100
Novene, 0.6 mile northwest of, southeast corner of bridge over Bear River, in abutment; aluminum tablet stamped "5881 B 1909 Q" .....	5, 882.943

MONTPELIER QUADRANGLE.<sup>1</sup>

[Latitude 42°–42° 30'; longitude 111°–111° 30'.]

From Novene along Oregon Short Line R. R. to point 3.5 miles south of Montpelier, thence south along road on east side of Bear Lake to Idaho-Utah State line.

Novene, in front of station; top of rail.....	5, 889.7
Woley's spur, 1 mile northwest of, southwest corner of bridge 137 over Bear River, in stone abutment; aluminum tablet stamped "5904 B 1909 R" ..	5, 904.179
Pescadero, 1 mile northwest of, south side of track, in concrete foundation of semaphore 1218; aluminum tablet stamped "5923 B 1909 S".....	5, 924.534
Pescadero, in front of station; top of rail.....	5, 922.2
Montpelier, 4.6 miles northwest of, southeast corner of bridge over Bear River, in concrete foundation; aluminum tablet stamped "5914 B 1909 T" .....	5, 915.709
Montpelier, in front of station; top of west rail.....	5, 941.4
Montpelier, southeast corner of First National Bank building, on step at entrance to bank; aluminum tablet stamped "5944 B 1909 U".....	5, 946.555
Montpelier, 3.4 miles southeast of, east edge of right of way, at road crossing, in fence corner; iron post stamped "5951 B 1909 V" .....	5, 953.041
Dingle, north end of town, at bend of road, opposite Bridge's ranch house, southwest corner of house yard; iron post stamped "5954 B 1909 W"....	5, 956.370
Meckley Lake; surface of water June 1, 1909.....	5, 926.7
Dingle, 2.9 miles south of, 1,000 feet south of Meckley Lake, 50 feet south of sheep pens, 150 feet west of road; iron post stamped "5939 B 1909 X" ..	5, 941.082
Mud Lake; surface of water, June 1, 1909.....	5, 924.9
Hot Springs, 1.6 miles north of, west edge of road, opposite Mini tunnel, on boulder painted "5928 B. M. 72"; chisel point.....	5, 930.64
Hot Springs, 500 feet west of north-south road, 100 feet south of Turnpike post office, west end of large gate to yard; iron post stamped "5947 B 1909 Y" .....	5, 948.918
Bear Lake, east shore; surface of water May 31, 1909, light west wind blowing.....	5, 925.0
Hot Springs, 1 mile south of, north end of row of poplar trees, 300 feet north of house, in base of 20-inch poplar tree; spike with aluminum tag stamped "5980 B. M. 73" .....	5, 932.49
Hot Springs, 3.5 miles south of, opposite northeast corner of alfalfa field, at lane to barn; iron post stamped "5958 B 1909 Z" .....	5, 960.748
Hot Springs, 5.7 miles south of, 250 feet west of road, on east shore of lake, 1,000 feet south of clump of small bushes at rocky point on shore, on boulder painted "5925 B. M. 76"; chisel point.....	5, 927.75
North Eden, 1.2 miles north of, 25 feet west of road, 150 feet east of small clump of trees, 100 feet east of lake; iron post stamped "5942 B 1909 A 1" ..	5, 944.725
North Eden, 0.7 mile south of, at fence corner, 1,000 feet south of sheep sheds, west edge of road; iron post stamped "5958 B 1909 B 1" .....	5, 960.503

<sup>1</sup> Additional elevations in this quadrangle will be found in Wyoming list, Bulletin 558.



**From Dingle along Oregon Short Line R. R. to Border.**

	Feet.
Dingle, 1.6 miles south of, in southeast corner of concrete abutment of bridge 117 over creek; aluminum tablet stamped "5983 B 1909 32".....	5, 985.062
Harer, in front of station; top of rail.....	6, 001.9
Pegram, 4.8 miles north of, 2,000 feet south of Harer station, opposite south end of siding, 100 feet west of right of way, on west side of wagon road; iron post stamped "5998 B 1909 33".....	6, 000.283
Pegram, 200 feet east of station, east edge of right of way, northwest corner of field, at road crossing; iron post stamped "6030 B 1909 34".....	6, 032.473
Pegram, .9 mile northeast of, northeast corner of steel bridge over Bear River, in cap; copper nail, with aluminum tag stamped "6042 B. M. 177".....	6, 044.04
Pegram, 2.6 miles northeast of, east edge of right of way, opposite milepost 95; iron post stamped "6048 B 1909 35".....	6, 049.589
Border, opposite section house, south side of track, 3 feet east of Idaho-Wyoming State line post; iron post stamped "6072 B 1909 30".....	6, 074.082

**From Montpelier by road through Geneva and Raymond to Border.**

Montpelier, east side of steps of town hall, on first tier of concrete guard rail; aluminum tablet stamped "5962 B 1909 21".....	5, 964.090
Montpelier, 4.4 miles east of, at city water works, in top, at north end of dam; aluminum tablet stamped "6211 1909 B 22".....	6, 212.840
Montpelier, 8.4 miles east of, 600 feet southeast of junction of Star Valley and Geneva roads, 200 feet south of creek, on point of hill, 20 feet east of road; iron post stamped "6444 B 1909 23".....	6, 445.577
Montpelier, 9.5 miles east of, 0.7 mile east of junction of Star Valley and Geneva roads, 3 miles west of summit, south side of road, on boulder painted "6608 B. M. 148"; chisel point.....	6, 610.60
Montpelier, 11.2 miles east of, 20 feet east of road, 3 miles east of junction of Star Valley and Geneva roads, on summit of ridge between Montpelier and Geneva; iron post stamped "7000 B 1909 24".....	7, 001.893
Summit between Montpelier and Geneva, 2 miles east of, 15 feet south of road, on boulder painted "6310 B. M. 151"; chisel point.....	6, 311.76
Summit between Montpelier and Geneva, 2.8 miles east of, 2 miles west of Geneva, 800 feet east of log house, at intersection of road to north, southwest corner of field; iron post stamped "6230 B 1909 25".....	6, 231.826
Geneva, near post office, 150 feet east of northwest corner of field, at intersection of north-south road; iron post stamped "6171 B 1909 26".....	6, 172.551
Geneva, 3.6 miles south of, 3.2 miles northeast of Raymond, south side of east-west road, 20 feet west of canal; iron post stamped "6205 B 1909 27".....	6, 206.797
Raymond, 1,500 feet south of schoolhouse, at section corner, junction of east-west road; iron post stamped "6133 B 1909 28".....	6, 134.878
Raymond, 3 miles south of, on section line, 0.25 mile east of Idaho-Wyoming State line, northwest corner of alfalfa field belonging to J. Francis, 15 feet south of gate to lane; iron post stamped "6107 B 1909 29".....	6, 108.961

**From Montpelier through Ovid, Paris, and St. Charles to Turnpike (Hot Springs).**

Montpelier, 1.7 miles west of, northeast corner of steel bridge over Bear River, in concrete abutment; bolthead painted "5925".....	5, 926.71
Montpelier, 3 miles west of, 350 feet west of bridge over slough, at junction of roads in southeast corner of field; iron post stamped "5922 B 1909 36".....	5, 924.620
Ovid, southwest corner of school yard, at road junction; iron post stamped "5932 B 1909 37".....	5, 934.170
Paris, southwest corner of county courthouse, 5 feet above ground; aluminum tablet stamped "5966 B 1909 38".....	5, 967.824

Feet.

St. Charles, 3 miles north of, northeast corner of field, at junction of road west, 60 feet south of log barn at Joe Patterson's ranch, 300 feet north of creek; iron post stamped "5962 B 1909 39".....	5, 964. 630
St. Charles, northeast end of town, west edge of road, opposite intersection of Paris and turnpike roads, 35 feet east of frame house, on fence line; iron post stamped "B 1909 5953 40".....	5, 955. 668
St. Charles, 3 miles east of, 4 miles west of Hot Springs, 50 feet west of outlet of Bear Lake, on turnpike road; iron post stamped "5927 B 1909 41".....	5, 929. 150
Bear Lake; surface of water July 19, 1909 (light south wind and small waves, poor level).....	5, 925. 3
Mud Lake; surface of water July 19, 1909.....	5, 925. 1

**From point 8.4 miles east of Montpelier north along highway to Halfway House.**

T. 12 S., R. 45 E., sec. 34, 8.4 miles east of Montpelier, 600 feet southeast of junction of Star Valley and Geneva roads, 200 feet south of creek, on point of hill, 20 feet east of road; iron post stamped "6444 B 1909 23"....	6, 445. 577
T. 12 S., R. 45 E., sec. 27, 0.7 mile north of junction of Star Valley and Geneva roads, on west side of road, 100 feet south of small drain; point on rock, painted "B. M. 6463".....	6, 464. 07
T. 12 S., R. 45 E., sec. 27, 1 mile north of junction of Star Valley and Geneva roads, east edge of road, on side of hill; point on top of large rock, painted "B. M. 6478".....	6, 479. 46
T. 12 S., R. 45 E., sec. 23, west edge of Star Valley road, 700 feet north of stream crossing, 200 feet north of junction of valley roads, on point of hill, in base of telephone pole; spike, painted "B. M. 6502" nearby....	6, 503. 77
T. 12 S., R. 45 E., sec. 15, 2.9 miles north of junction of Star Valley and Geneva roads, 0.9 mile north of house, 20 feet west of road, on gentle slope; spike in base of corner fence post, painted "B. M. 6581".....	6, 582. 11
T. 12 S., R. 45 E., sec. 11, 3.5 miles north of junction of Star Valley and Geneva roads, 400 feet east of junction of Montpelier Creek and stream from east, 80 feet north of stream crossing, on slope of hill, 20 feet north of road; iron post stamped "6606 1911 1".....	6, 607. 263
T. 12 S., R. 45 E., sec. 11, 1 mile east of Montpelier Creek, 10 feet north of road, at right-angle bend in road, at junction of three valleys; spike in base of telephone pole 433, painted "B. M. 6714 5".....	6, 715. 71
T. 12 S., R. 45 E., sec. 2, 1 mile north of right-angle bend in road and valley, 0.6 mile south of Giveout, on east edge of road; spike in base of telephone pole 465, painted "B. M. 6791".....	6, 792. 12
Giveout, T. 11 S., R. 45 E., sec. 35, 1.6 miles north of right-angle bend in valley, on west side of road, in northeast corner of log barn, in top of log; spike, painted "B. M. 6842 7".....	6, 843. 81
Giveout, 0.7 mile north of, in sec. 35, T. 11 S., R. 45 E., in first divide north of Giveout, 20 feet west of road; iron post stamped "7023 1911 2".....	7, 024. 677
Giveout, 1.9 miles north of, in sec. 36, T. 11 S., R. 45 E., 300 feet northwest of small stream crossing, 300 feet south of upper and lower roads, 100 feet west of road, in valley; spike in base of telephone pole 452, painted "B. M. 6955 8".....	6, 956. 54
T. 11 S., R. 45 E., sec. 23, 2.7 miles north of Giveout, on top of second divide north of Giveout, 15 feet west of road; spike in foot of 8-inch quaking-asp tree, painted "B. M. 7243 9".....	7, 244. 88
T. 11 S., R. 45 E., sec. 23, 3.2 miles north of Giveout, 100 feet north of road crossing on West Fork of Thomas Fork of Bear River, 25 feet above stream, 50 feet east of Star Valley road, on bench of hill; iron post stamped "B. M. 7008 3".....	7, 009. 529

	Feet.
Halfway House, 2 miles south of, in sec. 14, T. 11 S., R. 45 E., 1.8 miles north of West Fork of Thomas Fork of Bear River, 800 feet north of junction of upper and lower roads, 50 feet north of stream crossing, on east edge of road; painted point on rock, marked "B. M. 7258 10".....	7, 259. 38
Halfway House, 1 mile southwest of, in sec. 11, T. 11 S., R. 45 E., on highest divide on Star Valley road between Montpelier and Star Valley, 20 feet east of road; spike in base of telephone pole, painted "B. M. 7479 11".....	7, 480. 28
Halfway House, 0.2 mile north of, between secs. 35 and 2, Tps. 10 and 11 S., R. 45 E., 15 feet west of road, in saddle, 1.2 miles northwest of highest divide on Star Valley road; iron post stamped "7154 1911 4".....	7, 155. 924

## CROW CREEK QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 111°-111° 15'.]

## From point 1 mile north of Halfway House to Idaho-Wyoming State line.

Halfway House, 1 mile northwest of, in sec. 35, T. 10 S., R. 45 E., 200 feet north of stream where road turns into Crow Creek Valley, east edge of road; painted point on rock, marked "B. M. 6949".....	6, 950. 75
Halfway House, 2.1 miles northwest of, in sec. 26, T. 10 S., R. 45 E., 100 feet south of small stream, 35 feet west of Star Valley road; painted point on rock, marked "B. M. 6853 13".....	6, 859. 41
T. 10 S., R. 45 E., sec. 23, 3.2 miles north of Halfway House, 500 feet south of junction of large stream from the east with Crow Creek, 10 feet west of road, on small rise, 150 feet west of Crow Creek; iron post stamped "6754 1911 5".....	6, 756. 030
T. 10 S., R. 45 E., sec. 14, 4.2 miles north of Halfway House, 100 feet northeast of Alleman's Spring road crossing, 30 feet east of road, at southwest corner of old log house; spike in top of log, marked "B. M. 6695 14".....	6, 696. 66
T. 10 S., R. 45 E., sec. 11, 5 miles north of Halfway House, on northeast corner of Wells barn, 40 feet east of road; spike in side of log, painted "B. M. 6669 15".....	6, 670. 90
T. 10 S., R. 45 E., sec. 11, 6 miles north of Halfway House, 30 feet north of road, on southwest corner of Book's bunk house; spike in log, painted "B. M. 6622 16".....	6, 623. 93
T. 10 S., R. 45 E., sec. 1, 1.2 miles northeast of Book's ranch, 450 feet north of Deer Creek, 800 feet west of Crow Creek, 15 feet north of Star Valley road, at bend in road, at base of hill; iron post stamped "6588 1911 6".....	6, 589. 911
Deer Creek, 1.3 miles north of, 10 feet west of Star Valley road; spike in base of telephone pole 955, painted "B. M. 6501 17".....	6, 502. 95
Deer Creek, 2.3 miles north of, 20 feet west of Star Valley road; spike in base of telephone pole 989, painted "B. M. 6453 18".....	6, 454. 44
Sage Creek Crossing, 200 feet north of, on point of hill, 15 feet east of junction of Star Valley and Sage Creek roads; iron post stamped "6423 1911 7".....	6, 424. 203
Sage Creek, 1 mile north of, 150 feet east of Lowe's house, 20 feet west of Star Valley road; spike in base of telephone pole 1051, painted "B. M. 6388 19".....	6, 389. 33
Sage Creek, 2.3 miles northeast of, 250 feet west of vacant house, 90 feet south of dry ravine, 20 feet east of Star Valley road; spike in base of numbered telephone pole, painted "B. M. 6378 20".....	6, 379. 79
Sage Creek, 3.4 miles northeast of, 60 feet east of Charles Thornton's house, 80 feet west of Star Valley road, on gentle slope; iron post stamped "6317 1911 8".....	6, 319. 064

	Feet.
Hardman's Hollow, 0.5 mile north of, 0.5 mile northeast of Idaho-Wyoming State line road crossing, on west edge of Star Valley road, on rocky point; painted point on rock, painted "B. M. 6268 21".....	6, 269. 83

**FREEDOM QUADRANGLE.**

[Latitude 42° 45'–43°; longitude 111°–111° 15']

**From point 3 miles west of Auburn west along old Lander trail to summit on Lander trail.**

Auburn, 3.6 miles west of, 250 feet northwest of Stump Creek, 10 feet north of junction of Stump Creek road with Tyger road, at base of hill; iron post stamped "6156 1911 13".....	6, 157. 471
Auburn, 5.1 miles northwest of, 100 feet south of Horse Creek road crossing, 120 feet east of forest ranger's house, 30 feet east of Stump Creek road; spike in base of fence post, painted "B. M. 6215 31".....	6, 216. 39
Auburn, 5.6 miles northwest of, 0.6 mile north of Horse Creek, 600 feet south of salt works, on flat in wash at base of hill; chisel point on large white rock, painted "B. M. 6198 32".....	6, 199. 66
Auburn, 6.9 miles northwest of, 1.8 miles north of Horse Creek, 1.3 miles north of salt works, 500 feet west of Stump Creek, 20 feet south of small stream, on east edge of road, on small rise; iron post stamped "6256 1911 14".....	6, 258. 137
Auburn, 7.9 miles northwest of, 2.3 miles north of salt works, 30 feet east of Stump Creek road, 20 feet west of small stream, 150 feet west of edge of flat, on high ground; chisel point on rock, painted "B. M. 6316 33".....	6, 317. 85
Auburn, 9.3 miles northwest of, 1 mile west of elbow in Stump Creek Valley, in small saddle on south edge of upper Stump Creek road; spike in root of red pine tree, tree painted "B. M. 6435 34".....	6, 436. 72
Auburn, 10 miles northwest of, 150 feet northwest of Boulder Creek road crossing, 50 feet south of Stump Creek, 10 feet south of Stump Creek road, on large open bench; iron post stamped "6413 1911 15".....	6, 414. 472
Auburn, 10.8 miles northwest of, 70 feet southwest of stream crossing, at lower end of Tearas Canyon, 10 feet south of road, spike in root of dry red-pine tree, painted "B. M. 6464 35".....	6, 466. 19
Auburn, 11.5 miles northwest of, 0.6 mile up Tearas Canyon, 50 feet north of stream, 20 feet north of Stump Creek road; spike in hewed point in base of dead red-pine tree, painted "B. M. 6622 36".....	6, 623. 96
Auburn, 12.5 miles northwest of, 1.7 miles up Tearas Canyon, 100 feet west of stream crossing, on lower and north edge of road, 400 feet above bad dugway; chisel point on rock, painted "B. M. 6972 37".....	6, 973. 46
Auburn, 13.6 miles northwest of, pass at head of Tearas Canyon (occupied by a tributary of Stump Creek near its source), first summit on Lander trail west of Auburn, in open space 150 feet in diameter and surrounded by timber, 25 feet north of road; iron post stamped "7396 1911 16".....	7, 397. 998
Auburn, 15.2 miles northwest of, top of second summit northwest of Auburn on Lander trail, 1.6 miles west of head of Tearas Canyon, 50 feet south of road; spike in 16-inch white-pine tree encircled with white paint, marked "U. S. 7435 B. M.".....	7, 436. 35
Auburn, 15.6 miles northwest of, top of third summit in mountains northwest of Auburn on Lander trail, 2 miles west of head of Tearas Canyon, 15 feet south of road; spike encircled with white paint at base of 10-inch quaking-aspen tree, marked "U. S. 7478 B. M.".....	7, 479. 70
Auburn, 16.9 miles northwest of, 3.25 miles west of head of Tearas Canyon, top of fourth summit in mountains northwest of Auburn on Lander trail, 20 feet north of road; iron post stamped "7327 1911 17".....	7, 328. 517

	Feet.
Auburn, 17.5 miles northwest of, 3.8 miles west of head of Tearas Canyon, near bottom of west slope of fourth summit west of Tearas Canyon, 10 feet north of road; in top of 9-inch pine stump 2½ feet high; spike encircled with white paint, marked "U. S. 7209 B. M.".....	7, 210. 97
Auburn, 18 miles northwest of, at top of fifth summit in mountains on Lander trail, 4.6 miles west of head of Tearas Canyon, 10 feet north of road; spike in base of 14-inch quaking-asp tree, marked "U. S. 7250 B. M.".....	7, 251. 56
Sixth summit on Lander trail northwest of Auburn, at top of, marked elevation "7228" on pine log, 15 feet north of road, held on nail encircled with white paint.....	7, 230. 04

## HENRY QUADRANGLE.

[Latitude 42° 45'-43°; longitude 111° 30'-111° 45'.]

From point 3.2 miles west of Fox ranch south along highway to point 8 miles north of Soda Springs.

T. 7 S., R. 42 E., sec. 14, 3.2 miles west of Fox ranch, 2.6 miles northeast of bridge over Blackfoot River on Henry road, 0.3 mile west of log fence surrounding large field, at top of first hill west of fence, 15 feet north of road; iron post stamped "6329 1911 27".....	6, 329. 668
T. 7 S., R. 42 E., sec. 10, 13.3 miles northeast of Soda Springs, 1.3 miles northeast of bridge over Blackfoot River, on Soda Springs-Grays Lake road, 30 feet west of intersection of Grays Lake and Blackfoot River roads to Henry; point on top of lava boulder, marked "U. S. 6320 B. M. 52".....	6, 320. 43
T. 7 S., R. 42 E., NE. ¼ sec. 16, 150 feet north of Blackfoot River bridge, on east side of Henry road, 4 feet west of fence; iron post stamped "6131 1911 28".....	6, 131. 96
Blackfoot River, under bridge on Henry road; surface of water July 12, 1911.....	6, 123. 3
T. 7 S., R. 42 E., sec. 16, at intersection of Henry road and old road to Henry via old toll bridge now submerged by Henry Lake, 0.5 mile south of bridge over Blackfoot River on Henry road, 100 feet south of intersection, 50 feet west of Soda Springs road; spike in base of telephone pole, marked "U. S. 6133 B. M. 53".....	6, 133. 75
T. 7 S., R. 42 E., sec. 21, 1.6 miles south of bridge over Blackfoot River, 170 feet east of Henry road, 450 feet north of cabin on east side of road; spike in base of pole of George Doull's telephone line, marked "U. S. 6141 B. M. 54".....	6, 141. 93
T. 7 S., R. 42 E., sec. 28, 9.2 miles north of Soda Springs, 2.8 miles south of bridge over Blackfoot River, 600 feet north of point where Henry road crosses to east side of George Doull's telephone line; near bottom of ravine, 50 feet east of road, 250 feet west of telephone line; point on top of large basalt boulder, marked "U. S. B. M. 55".....	6, 175. 01
Tps. 7 and 8 S., R. 42 E., secs. 33 and 34, 8.1 miles north of Soda Springs, 1,000 feet east of intersection of George Doull's telephone line with spur line leading east, 1 mile to ranch house, 45 feet north of two large gates separated by east-west wire fence, 30 feet north of above spur telephone line, 150 feet east of Soda Springs-Henry road, 4 feet west of north-south fence; iron post stamped "6165 1911 29".....	6, 165. 861

## LANES CREEK QUADRANGLE.

[Latitude 42° 45'-43°; longitude 111° 15'-111° 30'.]

From seventh summit on Lander trail west along Lander trail and highway to point 1 mile west of Fox ranch.

Feet.

Auburn, 19.5 miles northwest of, top of seventh and last summit of mountains as counted west from head of Tearas Canyon, 2.5 miles east of Kunz Middle Dairy, 20 feet southwest of road; spike in top of 8-inch pine stump 14 inches high, marked "U. S. 7039 B. M. 42" .....	7, 040. 65
T. 6 S., R. 22 E., in unsurveyed sec. 2, 1.2 miles east of Kunz Middle Dairy, 50 feet east of point where road crosses a westward-flowing tributary of Lanes Creek, 20 feet south of road, 30 feet north of creek, on small knoll; iron post stamped "6866 1911 18" .....	6, 867. 290
Kunz Middle Dairy, 0.6 mile east of, marked elevation "6716" on large conglomerate boulder 4 feet south of road .....	6, 717. 65
T. 5 S., R. 44 E., sec. 34, at Kunz Middle Dairy, on Lanes Creek, 135 feet south of W. J. Kunz's house, 125 feet west of creek, 40 feet west of stable, 40 feet east of road; iron post stamped "6665 1911 19" .....	6, 666. 364
Kunz Middle Dairy, 1.3 miles south of, in sec. 4, T. 6 S., R. 44 E., intersection of Montpelier and Grays Lake telephone line and Williamsburg-Blackfoot road, 0.5 mile east of Chippy Creek, 130 feet north of road; spike in base of telephone pole, marked "U. S. 6635 B. M. 43" .....	6, 636. 65
T. 6 S., R. 44 E., sec. 8, 50 feet south of Kunz Creek, 110 feet southwest of Dairy, 130 feet northeast of house, 20 feet east of Lanes Creek road; iron post stamped "6600 1911 20" .....	6, 602. 243
T. 6 S., R. 44 E., sec. 17, on east side of corduroy bridge on Lanes Creek road, 1 mile south of Lower Dairy; marked elevation "6604" .....	6, 606. 24
T. 6 S., R. 44 E., in sec. 29, 2.8 miles south of John Kunz Lower Dairy, 60 feet southwest of northwest corner of Austin large hay field in upper valley, 25 feet west of Lanes Creek road; iron post stamped "6504 1911 21" ..	6, 506. 165
Lanes Creek road, 15 feet east of; marked elevation "6483" on fence post..	6, 484
Lanes Creek road, 20 feet east of; marked elevation "6498" on fence post..	6, 499
T. 7 S., R. 44 E., sec. 9, 2.4 miles northeast of Stocking sheep corral, top of hill north of junction of South Fork of Blackfoot River and Lanes Creek, hill underlain by basalt lava flow overlying sandstone, 20 feet west of Lanes Creek road; iron post stamped "6559 1911 22" .....	6, 561. 151
T. 7 S., R. 44 E., sec. 8, 0.3 mile north of Blackfoot River, 1.5 miles east of Stocking ranch, 30 feet south of Blackfoot River road; point on top of 16-inch low-lying basalt boulder, painted "U. S. 6465 B. M." .....	6, 466. 43
T. 7 S., R. 44 E., sec. 8, 0.5 mile north of Stocking ranch house, 0.6 mile northeast of sheep-dipping corral, south side of Blackfoot River road; spike in base of fence post, marked "U. S. 6416 B. M. 45" .....	6, 418. 25
T. 7 S., R. 44 E., SE. $\frac{1}{4}$ sec. 7, 27 miles northeast of Soda Springs, 115 feet north of intersection of Blackfoot River road and dim road leading northwest to Henry, 0.3 mile west of Stocking ranch house, 250 feet south of sheep-dipping corral, 25 feet east of road; iron post stamped "6443 1911 23" .....	6, 444. 424
T. 7 S., R. 44 E., sec. 13, 0.3 mile north of north entrance to the "Narrows," east side of Blackfoot River road; marked elevation "6460" on post...	6, 455. 70
T. 7 S., R. 44 E., sec. 19, 2.1 miles southwest of Stocking ranch gate, in "Narrows" of Blackfoot River, 50 feet northwest of river, 10 feet south of road; point on 2-foot limestone boulder, marked "U. S. 6377 B. M. 46" ..	6, 378. 67
T. 7 S., R. 44 E., in sec. 19, 0.3 mile from south end of "Narrows" of Blackfoot River, 3.5 miles northeast of Home ranch, 16 feet west of river, 3 feet west of road, 3 feet above road level, in limestone outcrop; aluminum tablet stamped "6372 1911 24" .....	6, 373. 658

	Feet.
T. 7 S., R. 43 E., just west of section line between secs. 25 and 26, on south side of road intersection of Blackfoot road with road from southeast; spike in base of fence post, marked "U. S. 6361 B. M.".....	6, 362. 36
T. 7 S., R. 43 E., SE. $\frac{1}{4}$ sec. 27, 0.7 mile east of Blackfoot ranch (Austin Brothers' home ranch), 40 feet south of road; spike in east side of large gate post, marked "U. S. 6323 B. M.".....	6, 324. 13
T. 7 S., R. 43 E., SW. $\frac{1}{4}$ sec. 27, 500 feet northwest of ranch house, at Blackfoot ranch (Austin home ranch), 45 feet west of fence corner, west side of road; iron post stamped "6339 1911 25".....	6, 339. 532
T. 7 S., R. 43 E., sec. 33, east side of bridge over Blackfoot River, on Trail Creek road, at center of bridge; spike in top of wooden pier, marked "U. S. 6303 B. M.".....	6, 303. 78
T. 7 S., R. 43 E., sec. 19, 17.8 miles northeast of Soda Springs, north side of Soda Springs road, 25 feet west of gate leading to ranch house of Fox ranch, 12 feet west of platform for mounting, 110 feet south of ranch house; iron post stamped "6315 1911 26".....	6, 316. 026
T. 7 S., R. 42 E., sec. 13, 1.1 miles west of Fox ranch, south side of Soda Springs road; spike in base of large fence post, marked "U. S. 6297 B. M. 50".....	6, 298. 64

#### Hailey, Picabo, Sawtooth, and Soldier quadrangles.

#### BLAINE COUNTY.

The elevations in the following list are approximate and are based on the height of the bench mark at Beckers ranch, determined by the Oregon Short Line R. R. in 1914.

The leveling was done in 1896 by A. B. Searle.

#### HAILEY QUADRANGLE.

[Latitude 43° 30'-44°; longitude 114°-114° 30'.]

#### At Hailey Hot Springs.

	Feet.
Hailey Hot Springs, at southwest corner of porch of hotel; iron post stamped "5418".....	5, 414. 212

#### Along Warm Springs Creek.

Upper Hot Springs, at northwest corner of old cabin, on northeast side of road, about 20 yards from creek crossing; iron post stamped "6286".....	6, 281. 995
Punch Bowl Lakes, about 1.2 miles above, on southeast side of road; iron post stamped "6010".....	6, 006. 425
Ketchum, bridge across Wood River, east end of, in top of large rock abutment; bronze tablet stamped "5819".....	5, 815. 364

#### From Ketchum south along Oregon Short Line R. R. to Hailey.

Cold Springs mill, about 0.2 mile south of, at Point of Rocks; iron post stamped "5690".....	5, 685. 514
Gimlet, discontinued post office, in front yard of east building; iron post stamped "5544".....	5, 539. 411
Becker's ranch, at fence corner west of railroad track, about 20 yards south of road crossing; iron post stamped "5465".....	5, 460. 844

#### From Ketchum north along Sawtooth road.

Ketchum, 2.5 miles north of, first bridge over Wood River, not on main road, about 40 feet northeast of east end, west of road; iron post stamped "5949".....	5, 944. 519
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	Feet.
Ketchum, 8.5 miles north of, about 90 feet north of third bridge over Wood River, 30 feet east of wagon road; iron post stamped "6236" .....	6, 231. 615
Ketchum, 10 miles north west of, south of wagon road, beyond crossing of dry wash, in center of large flat; cross on small basalt rock.....	6, 311. 1

**PICABO QUADRANGLE.**

[Latitude 43°-43° 30'; longitude 114°-114° 30'.]

**From Halley along Camas Prairie road to Doniphan.**

Gilman, side of house where post office was formerly located, near forks of road; iron post stamped "5547" .....	5, 542. 701
Kelly Creek crossing, 50 feet west of; iron post stamped "5857" .....	5, 852. 600
Divide between Croy and Camp creeks, south side of road; iron post stamped "6114" .....	6, 110. 544
Doniphan, south side of post office building used also as assay office of Camas No. 2 mine; iron post stamped "5788" .....	5, 784. 122

**SOLDIER QUADRANGLE.**

[Latitude 43°-43° 30'; longitude 114° 30'-115°.]

**Along Willow Creek.**

Willow Creek road and short cut to Soldier, forks of, about 50 feet west of a lone tree at edge of small drain; iron post stamped "5094" .....	5, 089. 652
Willow Creek and Soldier roads, about 4 miles north of intersection of, house of A. B. Arnold, at west side of county road, near rail fence at end of bars; iron post stamped "5298" .....	5, 293. 425
Willow Creek and Buttercup mine roads, junction of, southeast corner of log house; iron post stamped "5530" .....	5, 526. 274

**From Smoky District to head of Soldier Creek.**

Trail Creek and branch of Soldier Creek, divide between; iron post stamped "7082" .....	7, 077. 610
T. 14 E., R. 1. N., south line of sec. 9, near Soldier Creek, at southeast corner of John Wordrupp's corral, about 20 feet west of forks of Soldier and Trail Creek roads; iron post stamped "5366" .....	5, 361. 31
Soldier Creek, near, 30 yards northwest of little log cabin, west side of wagon road, where road makes right-angle turn after crossing creek near clump of quaking-aspen trees; iron post stamped "5755" .....	5, 750. 70
Soldier Creek, near, 2 miles west of mill, near cluster of big rocks, about 20 yards from large fir tree and 30 yards south of trail; iron post stamped "6558" .....	6, 553. 767

**SAWTOOTH QUADRANGLE.**

[Latitude 43° 30'-44°; longitude 114° 30'-115°.]

**From divide between Willow Creek and Smoky Creek to Castle Crag.**

Willow Creek and Smoky Creek divide, highest point of, about 200 feet east of road; iron post stamped "6857" .....	6, 852. 687
Soldier road, junction with, opposite Soldier road crossing of Little Smoky Creek, in top of boulder; bronze tablet stamped "6365" .....	6, 360. 367
Carrie Leonard road, junction with, west side of road, about 0.5 mile north of junction of Carrie Leonard and Little Smoky creeks; iron post stamped "6123" .....	6, 118. 863



	Feet.
Carrie Leonard Creek and Warm Springs Creek, divide between; iron post stamped "8719" .....	8, 714. 257
Summit where Warm Springs Creek crosses road, about 3.5 miles east of, on south side of road, near group of large stumps; iron post stamped "7281" ..	7, 277. 055
Castle Crag, 50 feet east of base of, at west side of road, midway between two creek crossings; in top of rock; bronze tablet stamped "6640" .....	6, 635. 852

**From Smoky District along south Boise trail toward Atlanta.**

Worswick's, 1.5 miles from, about 100 yards east of trail; iron post stamped "7148" .....	7, 143. 945
Little and Big Smoky creeks, junction of, about 200 yards south of forks of South Boise and Big Smoky trails, in east face of rock, about 50 feet above general elevation of valley; copper bolt stamped "5539" .....	5, 534. 692
Big Smoky Creek, about 3.5 miles from junction with Little Smoky Creek, on rocky point about 100 feet above creek and about 20 yards southwest from lone fir tree; iron post stamped "5822" .....	5, 817. 437
South Boise Creek, 3.8 miles above placer claim, near lone fir tree at south side of trail on flat, 50 yards east of creek; iron post stamped "5773" ...	5, 768. 493
South Boise Creek, about 9.5 miles above placer claim, at south side of trail, at base of large accumulation of slide rock, at point where the canyon begins to narrow, and where trail goes down to creek; iron post stamped "6169" .....	6, 165. 271

**From point 13.5 miles northwest of Ketchum up Wood River to divide between Wood and Salmon rivers.**

Ketchum, about 13.5 miles northwest of, about 40 feet north of abandoned stable on top of small knoll, at south end of road, west of road crossing of Boulder Creek; iron post stamped "6596" .....	6, 591. 544
Ketchum, 17.5 miles northwest of, 300 feet west of seventh bridge over Wood River, at top of wagon grade on north side of road; iron post stamped "7020" .....	7, 015. 444
Galena, near southeast corner of second building west of road; iron post stamped "7294" .....	7, 289. 873
Galena, 1.2 miles west of, about 70 feet before road crosses stream; cross mark on large rock west of road .....	7, 421. 9
Wood and Salmon rivers, divide between, 50 feet northwest of road; iron post stamped "8795" .....	8, 791. 260

**Arco, Bay Horse, Dickey, Mackay, May, Rabbit Foot, Salmon, Shelley, and Tilden quadrangles.**

**BINGHAM, BLAINE, CUSTER, AND LEMHI COUNTIES.**

The elevations in the following list were determined by an unadjusted primary-level line, run with prism level with yard and double-yard rod readings, and accord with the 1912 adjustment at Blackfoot. Rod, orthometric, and other corrections have been applied, and the line thus corrected closes 3.182 feet high upon an elevation determined by Barringer in 1910 by an unadjusted Y level line from Barratts, Mont., corrected also to accord with the 1912 adjustment and for various errors.

The leveling was done in 1912 by D. S. Birkett.

## SHELLEY QUADRANGLE.

[Latitude 43°-43° 30'; longitude 112°-112° 30'.]

From Blackfoot northwest along Oregon Short Line R. R. 10 miles.

Feet.

Blackfoot, on north side of Bridge Street, at east corner of Odd Fellows Hall, southeast corner of projecting foundation; bottom of square hole lettered "U. S." (C. & G. S. b. m. T 6) .....	4, 497. 714
Blackfoot, at corner of East Main and Judicial streets, in northwest corner of Bingham County courthouse grounds, 3 meters from west fence, in top of stone post marked "U. S. B. M."; bottom of square hole (C. & G. S. b. m. S 6) .....	4, 498. 081
Blackfoot, 1.5 miles northwest of, east end of Oregon Short Line R. R. bridge over Snake River, west side of concrete pier, 2 feet below level of track; chiseled square on steel bedplate, marked "U. S. B. M." .....	4, 484. 66
Collins siding; top of rail. ....	4, 481. 2
Blackfoot, 3 miles northwest of, 1,000 feet east of milepost 3, 40 feet south of railroad track; spike in base of telegraph pole, marked "U. S. 4475 B. M." .....	4, 474. 62
Blackfoot, 4 miles northwest of, 175 feet west of milepost 4, 40 feet south of track; spike in base of telegraph pole, marked "U. S. 4472 B. M." .....	4, 471. 75
Blackfoot, 5 miles northwest of, 1,000 feet east of milepost 5, middle of north side of bridge 3; driftbolt encircled in white paint, marked "U. S. 1490 B. M." (marked in yards instead of feet by mistake) .....	4, 470. 07
Moreland, opposite signboard; top of rail .....	4, 462. 04
Blackfoot, 6.5 miles northwest of, 50 feet east of milepost 6.5, 20 feet south of track, in concrete collar for siphon; bronze tablet stamped "4458 1912 2" .....	4, 457. 659
Moreland Junction, opposite signboard; top of rail .....	4, 463. 9
Moreland, 1.6 miles northwest of, 175 feet east of milepost 7.5, middle of north side of railroad bridge; driftbolt encircled in white paint, marked "U. S. 4469 B. M." .....	4, 469. 05
Moreland Junction, 1.3 miles northwest of, 40 feet north of milepost 8.5, south side of cattle guard; top of driftbolt encircled with white paint, marked "U. S. 4475 Elev" .....	4, 474. 81
Moreland Junction, 2.3 miles northwest of, 125 feet east of milepost 9.5, in large lava boulder; bronze tablet stamped "4481 1912 3" .....	4, 481. 140

## TILDEN QUADRANGLE.

[Latitude 43°-43° 30'; longitude 112° 30'-113°.]

From point 10 miles northwest of Blackfoot northwest along Oregon Short Line R. R. to point 2.4 miles northwest of Cerro Grande.

Moreland Junction, 3.8 miles northwest of, 1,100 feet northwest of milepost 10.5, 50 feet north of track, opposite railroad culvert; top of basalt lava boulder, point encircled in white paint, marked "U. S. 4497 Elev" .....	4, 500. 11
Moreland Junction, 4.8 miles northwest of, 5 feet east of milepost 11.5, 5 feet south of railroad track; top of basalt lava boulder, marked "U. S. 4523 B. M." (should be 4526) .....	4, 525. 54
Moreland Junction, 4.9 miles northwest of, 175 feet east of milepost 12, 40 feet north of railroad track, in top of basalt lava boulder; bronze tablet stamped "4540 1912 4" .....	4, 539. 863
Moreland Junction, 5.9 miles northwest of, 350 feet northeast of milepost 13, 30 feet south of railroad track; paint circle on top of basalt lava boulder, marked "U. S. 4561 B. M." .....	4, 560. 83
Moreland Junction, 6.9 miles northwest of, 50 feet south of railroad track; spike in base of milepost 14, marked "U. S. 4587 Elev" (railroad bench mark) .....	4, 590. 87

	Feet.
Taber, 4.8 miles southeast of, 1,000 feet northwest of milepost 15, in top of basalt lava boulder; bronze tablet stamped "4611 1912 5".....	4, 611. 423
Milepost 15.5; spike in base of (railroad bench mark, their value 4,614.468) ..	4, 615. 33
Taber, 4.1 miles southeast of, 600 feet east of milepost 16, west end of south side of west cattle guard; top of driftbolt encircled in white paint, marked "U. S. 4617 B. M.".....	4, 616. 72
Taber, 3 miles southeast of, opposite milepost 17, at end of present right of way fence, west end of north side of cattleguard; top of driftbolt encircled in white paint, marked "U. S. 4643 Elev".....	4, 642. 99
Taber, 2.3 miles southeast of, 1,530 feet east of milepost 18, 55 feet south of track, 6 inches north of cairn of rocks 3 feet high, painted "B. M.," low-lying basalt lava rock in place; bronze tablet stamped "4665 1912 6"....	4, 664. 670
Taber, 1 mile southeast of, 10 feet east of milepost 19, 10 feet south of rail, in top of wall of platform for handcar; point encircled in white paint on basalt lava rock, marked "U. S. 4694 B. M.".....	4, 694. 19
Milepost 120; spike in base of (railroad bench mark; their value 4,726.072) ..	4, 726. 841
Taber, 4 feet south of signboard, 250 feet northwest of milepost 20, 12 feet north of rail, in base of foundation for signboard, in basalt rock; bronze tablet stamped "4726 1912 7".....	4, 726. 293
Taber, 1 mile northwest of, 20 feet east of milepost 21, 6 feet south of rail, in top of foundation of platform for handcar; point encircled with white paint, marked "U. S. 4744 Elev".....	4, 743. 93
Taber, 1.6 miles northwest of, 500 feet northwest of milepost 21.5, in railroad rock through cut, 9 feet south of rail, top of basalt lava rock; bronze tablet stamped "4762 1912 8".....	4, 761. 898
Taber, 2.3 miles northwest of, 1,740 feet northwest of milepost 22, 20 feet north of rail; point encircled with white paint on basalt lava boulder, marked "U. S. 4774 Elev".....	4, 773. 94
Taber, 3.5 miles northwest of, 875 feet northwest of milepost 23, 30 feet north of rail; point encircled with white paint on basalt lava boulder, marked "U. S. 4815 B. M.".....	4, 814. 79
Taber, 4 miles northwest of, 60 feet west of milepost 24, 30 feet north of rail, in top of large basalt lava boulder; bronze tablet stamped "4848 1912 9" ..	4, 847. 532
Taber, 5.1 miles northwest of, 360 feet northwest of milepost 25, 10 feet north of rail; point encircled with white paint on basalt lava rock, marked "U. S. 4886 B. M.".....	4, 885. 90
Taber, 5.3 miles northwest of, 640 feet north of milepost 26, in railroad rock through cut, 8 feet south of rail, in basalt lava rock; bronze tablet stamped "4929 1912 10".....	4, 929. 145
Taber, 6.6 miles northwest of, opposite milepost 27, 12 feet north of railroad track; point encircled in white paint on basalt lava boulder, marked "U. S. 4952 Elev".....	4, 951. 58
Taber, 7.6 miles northwest of, 65 feet northwest of milepost 28, 9 feet north of rail; point encircled in white paint on basalt lava rock, marked "U. S. 4995 B. M.".....	4, 995. 00
Taber, 9.6 miles northwest of, 2,280 feet northwest of milepost 29, in railroad rock through cut, 6 feet south of rail, in basalt lava rock; bronze tablet stamped "5053 1912 11".....	5, 053. 118
Cerro Grande, 4.6 miles southeast of, 1,480 feet northwest of milepost 30.5, in railroad rock through cut, 6 feet south of rail; point encircled in white paint on basalt lava rock, marked "U. S. 5038 B. M.".....	5, 037. 78
Cerro Grande, 4 miles southeast of, 240 feet northwest of milepost 31, end of rock through cut; point encircled in white paint on basalt lava boulder, marked "U. S. 5039 B. M.".....	5, 038. 46

	Feet.
Cerro Grande, 3 miles southeast of, 520 feet northwest of milepost 32, in top of foundation for platform for handcar, 10 feet north of rail; point encircled in white paint, marked "U. S. 5026 Elev".....	5, 025. 82
Cerro Grande, 2.4 miles southeast of, 900 feet northwest of milepost 32.5, in deep railroad rock through cut, 9 feet south of rail, about the level of track; bronze tablet stamped "5025 1912 12".....	5, 025. 180
Cerro Grande, 1.8 miles southwest of, 270 feet southwest of milepost 33.5, 26 feet south of rail; point encircled in white paint on basalt lava rock, marked "U. S. 5000 B. M.".....	4, 999. 58
Cerro Grande, 1.3 miles southeast of, 750 feet southeast of milepost 34.5, 10 feet south of track; point encircled in white paint on basalt lava rock, marked "U. S. 4977 B. M.".....	4, 975. 89
Cerro Grande, 0.6 mile southeast of, 60 feet southeast of milepost 35, in rock through cut, 6 feet south of rail, in basalt lava rock; bronze tablet stamped "4979 1912 13".....	4, 978. 717
Cerro Grande, opposite signboard; top of rail.....	4, 981. 8
Cerro Grande, 0.4 mile northwest of, 115 feet southeast of milepost 36, 6 feet north of track, in foundation for platform of handcar; point encircled in white paint on top of boulder, marked "U. S. 4995 B. M.".....	4, 994. 06
Cerro Grande, 1.5 miles northwest of, 240 feet northwest of milepost 37, 12 feet north of rail, in top of foundation for line post between Bingham and Blaine counties, 12 feet north of rail; point encircled in white paint, marked "U. S. 5022 B. M.".....	5, 021. 49
Cerro Grande, 2.4 miles northwest of, 615 feet northwest of milepost 38, in railroad rock through cut, 8 feet south of rail, in basalt lava rock; bronze tablet stamped "5050 1912 14".....	5, 049. 514

## ARCO QUADRANGLE.

[Latitude 43° 30'-44°; longitude 113°-113° 30'.]

From point 2.4 miles northwest of Cerro Grande northwest along Oregon Short Line R. R. to point 1.4 miles northwest of Leslie.

Cerro Grande, 3.4 miles northwest of, 1,440 feet northwest of milepost 40, 6 feet south of rail; point encircled with white paint on basalt lava rock, marked "U. S. 5068 B. M.".....	5, 067. 24
Powell, 4 miles northwest of, 20 feet northwest of milepost 40, 6 feet south of rail; point encircled in white paint on basalt lava rock, marked "U. S. 5078 B. M.".....	5, 077. 15
Powell, 3.4 miles southeast of, 540 feet northwest of milepost 41, in railroad rock through cut, 10 feet north of rail, in basalt lava rock; bronze tablet stamped "5069 1912 15".....	5, 067. 937
Powell, 2.5 miles southeast of, 430 feet northwest of milepost 42, in railroad rock through cut, 6 feet south of rail; point encircled in white paint on basalt lava rock, marked "U. S. 5047 B. M.".....	5, 046. 34
Powell, 1.6 miles southeast of, 30 feet southeast of milepost 43, 8 feet north of rail, in basalt lava rock; bronze tablet stamped "5037 1912 16".....	5, 036. 712
Powell, opposite signboard; top of rail.....	5, 052. 9
Powell, 875 feet northwest of signboard, 90 feet northwest of road crossing, 8 feet south of track; point encircled in white paint on basalt lava rock, marked "U. S. 5057 B. M.".....	5, 056. 79
Powell, 1.4 miles northwest of, 50 feet northwest of milepost 46, in railroad rock through cut, 7 feet south of rail, in basalt lava rock; bronze tablet stamped "5078 1912 17".....	5, 077. 143
Milepost 47; railroad bench mark 5086.13.....	5, 086. 58

	Feet.
Powell, 2.4 miles northwest of, 1,900 feet northwest of milepost 47, in railroad rock through cut, 7 feet south of rail, in basalt lava rock; bronze tablet marked "U. S. 5098 B. M.".....	5,096.282
Powell, 3.8 miles northwest of, opposite milepost 48.5, in railroad rock through cut, 10 feet north of rail, in basalt lava rock; bronze tablet stamped "5128 1912 18".....	5,127.000
Powell, 5.4 miles northwest of, 1,100 feet southeast of milepost 50, in railroad rock through cut, 10 feet north of rail; point encircled in white paint on top of basalt lava rock, marked "U. S. 5174 B. M.".....	5,172.94
Arco, 8 miles southeast of, 45 feet east of milepost 51, 30 feet south of rail; point encircled in white paint on basalt lava rock, marked "U. S. 5223 B. M.".....	5,221.37
Arco, 7.8 miles southeast of, 626 feet southeast of milepost 51.1, 55 feet south of rail, in basalt lava rock; bronze tablet stamped "5236 1912 19".....	5,235.079
Arco, 6.5 miles southeast of, 185 feet east of milepost 52.5, 8 feet north of rail; point on basalt rock, marked "U. S. B. M.".....	5,269.51
Arco, 5.5 miles southeast of, 700 feet northwest of milepost 53.5, west end of south side of cattle guard at end of present right of way fence; top of driftbolt painted white, marked "U. S. B. M.".....	5,282.11
Arco, 4.2 miles southeast of, 700 feet east of milepost 55, west end of railroad rock through cut, 6 feet north of rail, in basalt lava rock; bronze tablet stamped "5302 1912 20".....	5,300.270
Arco, 3.1 miles southeast of, 330 feet southeast of milepost 56, 10 feet north of rail; top of collar of concrete siphon for irrigation ditch; chiseled square marked "U. S. B. M.".....	5,314.24
Arco, 2 miles southeast of, 170 feet northwest of milepost 57, north side of cattle guard; driftbolt encircled in white paint, marked "U. S. B. M.".....	5,328.59
Arco, 1.3 miles southeast of, 1,730 feet southeast of milepost 58, top of collar for concrete siphon on irrigation ditch; bronze tablet stamped "5332 1912 21".....	5,330.682
Arco, opposite semaphore; top of rail.....	5,322.9
Arco, 300 feet northwest of station, 20 feet south of rail on northeast corner of northeast concrete pier for water tank; chiseled square.....	5,323.52
Arco, 1.1 miles northwest of, 275 feet northwest of milepost 60, west side of railroad track, on top of collar for concrete siphon under railroad track; bronze tablet stamped "5347 1912 22".....	5,345.298
Arco, 2 miles northwest of, opposite milepost 61, at road crossing, east end of south side of east cattle guard; driftbolt encircled in white paint, marked "U. S. 5362 B. M.".....	5,361.05
Arco, 3.5 miles northwest of, 240 feet northwest of milepost 62.5, at road crossing, on east end of south side of east cattle guard; driftbolt encircled in white paint, marked "U. S. 5394 B. M.".....	5,393.22
Lost River, opposite signboard; top of rail.....	5,413.8
Lost River, 875 feet northeast of signboard, at road crossing, 40 feet north of rail, corner of right-of-way fence; iron post stamped "5415 1912 23".....	5,413.210
Lost River, 1.5 miles northeast of, 775 feet southeast of milepost 65, at road crossing, in west end of west cattle guard; driftbolt encircled in white paint, marked "U. S. 5437 B. M.".....	5,436.05
Moore, 0.5 mile southeast of, at road crossing, in east end of south side of west cattle guard; driftbolt encircled in white paint, marked "U. S. 5462 B. M.".....	5,460.97
Moore, opposite signboard; top of rail.....	5,473.7

	Feet.
Moore, 175 feet northwest of station, 300 feet south of rail; northeast corner of lot around red brick house of Mr. Walburn; iron post stamped "5474 1912 24".....	5, 473. 163
Moore, 1.6 miles northwest of, 300 feet southeast of milepost 68, center of south side of east cattle guard; driftbolt encircled in white paint, marked "U. S. 5523 B. M.".....	5, 522. 22
Moore, 3.7 miles northwest of, 935 feet northwest of milepost 69.5, 38 feet east of rail, at corner of fence for road crossing; iron post stamped "5597 1912 25".....	5, 595. 991
Moore, 4.7 miles northwest of, 700 feet southeast of milepost 71, top of collar for concrete siphon, north wing, 30 feet south of rail; chiseled square, marked "U. S. 5618 B. M.".....	5, 616. 96
Darlington, 0.6 mile southeast of, 1,050 feet northeast of milepost 71, east end of north side of west cattle guard; driftbolt encircled in white paint, marked "U. S. 5612 B. M.".....	5, 610. 37
Darlington, 90 feet northwest of signboard, 30 feet northeast of rail, 2 feet north of line of fence at road crossing; iron post stamped "5605 1912 26".....	5, 603. 923
Darlington, opposite signboard; top of rail.....	5, 606. 4
Darlington, 1 mile northwest of, opposite milepost 74, 100 feet northeast of rail; spike in base of fence post, marked "U. S. 5630 B. M.".....	5, 628. 42
Leslie, 3.1 miles southeast of, 525 feet northwest of milepost 74.5, center of east side of railroad bridge 15; driftbolt encircled in white paint, marked "U. S. 5645 B. M.".....	5, 644. 05
Leslie, 2.6 miles southeast of, 525 feet southeast of milepost 75, in top of riprap at northwest end of bridge 16 over Big Lost River, 6 feet west of rail, in large basalt lava boulder; bronze tablet stamped "5648 1912 27".....	5, 646. 966
Leslie, 1.4 miles southeast of, 100 feet northwest of milepost 76, in east end of north side of west cattle guard; driftbolt encircled in white paint, marked "U. S. 5670 B. M.".....	5, 666. 24
Leslie, opposite signboard; top of rail.....	5, 698. 6
Leslie, 0.2 mile northwest of; spike in base of milepost 77.5, marked "U. S. 5708 B. M." (should be 5705).....	5, 703. 88
Leslie, 1.4 miles northwest of, 1,000 feet southeast of milepost 79, at road crossing, 100 feet west of rail, at corner of right of way fence, south side of wagon road; iron post stamped "5740 1912 28".....	5, 738. 559

## MACKAY QUADRANGLE.

[Latitude 43° 30'-44°; longitude 113° 30'-114°.]

From point 1.4 miles northwest of Leslie northwest along Oregon Short Line R. R. to Mackay, thence northwest along highway 7.7 miles.

Leslie, 2.8 miles northwest of, 100 feet northwest of milepost 80; spike in base of fence post, marked "U. S. 5764 Elev".....	5, 763. 22
Huston Spur, opposite signboard; top of rail.....	5, 784. 0
Mackay, 4 miles southeast of, 700 feet northwest of milepost 81, in west side of north cattle guard; driftbolt encircled in white paint, marked "U. S. 5797 B. M.".....	5, 796. 10
Mackay, 3 miles southeast of, 1,225 feet northwest of milepost 82, 50 feet southwest of railroad track, 30 feet west of wagon road, 2 feet south of line of fence; iron post stamped "5826 1912 29".....	5, 824. 367
Mackay, 1.7 miles southeast of, 900 feet southeast of milepost 83.5, east end of south side of east cattle guard, at road crossing; driftbolt encircled in white paint, marked "U. S. 5865 B. M.".....	5, 863. 62

	Feet.
Mackay, 1 mile southeast of, opposite milepost 84, 50 feet north of rail; spike in base of fence post, marked "U. S. 5880 Elev".....	5, 878. 83
Mackay, northwest corner of city park, 200 feet southeast of Hotel Mackay, 10 feet east of outside line of trees; iron post stamped "5901 1912 30"....	5, 899. 376
Mackay, 1.7 miles northwest of, 40 feet east of road; nail in base of telephone pole 37, marked "U. S. 5948 Elev".....	5, 946. 75
Mackay, 2.4 miles northwest of, between telephone poles 49 and 50, west side of stage road; nail in top of stump of telephone pole, marked "U. S. 5967 B. M." (should be 5965).....	5, 965. 24
T. 7, R. 24, southeast corner of sec. 18, 3.2 miles northwest of Mackay, 1 foot south of fence, 3 feet west of gate; iron post stamped "5988 1912 31"....	5, 986. 353
Mackay, 4.1 miles northwest of, on south side of road; nail in base of telephone pole 65, marked "U. S. 6077 Elev".....	6, 075. 94
Mackay, 4.6 miles northwest of, 400 feet north of north end of dam, 50 feet north of small borrow pit, 30 feet north of stage road, 75 feet south of telephone line; iron post stamped "6120 1912 32".....	6, 118. 404
Mackay, 5.5 miles northwest of, 2,100 feet northwest of dam, 1,000 feet north of log cabin, 15 posts north of bend in fence; point encircled in white paint on top of brace for fence post, marked "U. S. 6019 Elev".....	6, 018. 16
Mackay, 7.8 miles northwest of, in line of fence leading from Pence ranch house, 300 feet south of corral, on west side of stage road; nail in base of fence post, marked "U. S. 6095 Elev".....	6, 093. 83
Mackay, 9.4 miles northwest of, about opposite telephone pole 162, 50 feet east of road, 1 foot north of fence; iron post stamped "6122 1912 33"....	6, 120. 969
Mackay, 9.8 miles northwest of, 1,100 feet west of pole line, 450 feet north of edge of river bench; point encircled in white paint on rock marked "U. S. 6150 B. M.".....	6, 148. 31
Mackay, 10.2 miles northwest of, 0.2 mile north of ranch house, 0.5 mile south of pole line, northeast corner of fence; nail in base of fence post, marked on brace "U. S. 6189 Elev".....	6, 189. 52

#### DICKEY QUADRANGLE.

[Latitude 44°-44° 30'; longitude 113° 30'-114°.]

**From point 7.7 miles northwest of Mackay northwest along highway to point 3.6 miles northwest of Dickey.**

Mackay, 11.5 miles northwest of, 0.8 mile south of tree known as the "Lone Cedar," 0.5 mile southeast of stage road, along telephone line, 0.4 mile north of "Big Lost" River, 50 feet south of corner of fence; iron post stamped "6208 1912 34".....	6, 206. 542
Mackay, 13.8 miles northwest of, 1,000 feet east of Rye Grass ranch house, 30 feet west of stage road; top of quarter-section post between secs. 12 and 13, marked "U. S. B. M.," stamped "6255" on top.....	6, 253. 81
Mackay, 14.7 miles northwest of, 575 feet southeast of forks of road, 0.2 mile northwest of Rye Grass ranch, 300 feet east of river, 190 feet west of stage road, 25 feet south of fence corner; iron post stamped "6223 1912 35".....	6, 221. 505
Mackay, 16 miles northwest of, 670 feet northwest of forks of road, 0.8 mile southeast of Elk Horn stock ranch, 10 feet east of stage road; point encircled in white paint on boulder, marked "U. S. 6251 B. M.".....	6, 250. 18
Mackay, 16.4 miles northwest of, 500 feet northeast of Elk Horn stock ranch, on log abutment for bridge on stage road; nail encircled in white paint, marked "U. S. 6268 B. M.".....	6, 266. 26

Feet.

Mackay, 17.5 miles northwest of, 0.8 mile northwest of Elk Horn ranch, 18 feet east of irrigation ditch, on line of fence, 25 feet east of corner; iron post stamped "6271 1912 36".....	6, 269. 681
Mackay, 18.5 miles northwest of, 0.75 mile east of Later ranch, point where stage road crosses telephone line; nail in stump of telephone pole, marked "U. S. 6288 B. M.".....	6, 286. 30
Mackay, 19.4 miles northwest of, 0.5 mile northwest of Later ranch, on telephone line, 50 feet west of stage road, between telephone poles 343 and 344; copper nail in stump of telephone pole, marked "U. S. 6341 B. M.".....	6, 339. 31
Mackay, 19.5 miles northwest of, 0.5 mile west of Whiskey Springs, 300 feet east of R. V. Later's ranch hotel and stage station, 4 feet south of telephone pole 350; iron post stamped "6342 1912 37".....	6, 340. 555
Mackay, 21.5 miles northwest of, 1 mile southeast of Dickey, opposite telephone pole 372, corner of fence; spike in base of fence post, marked "U. S. 6346 Elev".....	6, 345. 02
Dickey, 0.5 mile south of, 1,000 feet north of ranch house, 140 feet southwest of telephone pole 394, 10 feet south of road; copper nail in base of fence post, marked "U. S. 6326 B. M.".....	6, 325. 16
Dickey, 50 feet southwest of Al West's ranch house, 270 feet south of Willow Creek, 1 foot west of line of fence; iron post stamped "6345 1912 38".....	6, 343. 985
Dickey, 1.5 miles northwest of, 15 feet north of road; nail in base of telephone pole 435, marked "U. S. 6377 Elev".....	6, 375. 48
Dickey, 3.6 miles northwest of, 4.8 miles from Willow Creek summit, 0.2 mile northwest of stage road, 6 feet south of telephone pole 466; iron post stamped "6492 1912 39".....	6, 490. 627

## BAY HORSE QUADRANGLE.

[Latitude 44°-44° 30'; longitude 114°-114° 30'.]

From point 3.8 miles northwest of Dickey north along highway to point 1.5 miles east of Challis.

Dickey, 5 miles northwest of, 300 feet west of stage road; nail in base of telephone pole 488, marked "6664 Elev".....	6, 662. 97
Dickey, 5.9 miles northwest of, 250 feet west of road; copper nail in stump of brace for telephone pole 501, marked "U. S. 6751 Elev".....	6, 749. 28
Dickey, 6.9 miles northwest of, 0.6 mile east of quarter-section post between secs. 10 and 11, 0.4 mile south of small butte, 100 feet west of stage road, between telephone poles 516 and 517; copper nail in stump of telephone pole, marked "U. S. 6757 Elev".....	6, 755. 60
Willow Creek summit, 1.3 miles from, 0.5 mile northwest of quarter-section post between secs. 10 and 11, 800 feet east of pole line, 300 feet northwest of extensive outcrop of limestone, 40 feet west of stage road; iron post stamped "6760 1912 40".....	6, 759. 174
Willow Creek summit, 40 feet northeast of stage road, 100 feet southwest of telephone line; iron post stamped "7165 1912 41".....	7, 163. 38
Willow Creek summit, 0.8 mile northwest of, 60 feet northwest of telephone line, 300 feet east of stage road, where telephone line crosses gulch; point encircled in white paint on lava boulder, marked "U. S. 6945 B. M."..	6, 944. 10
Willow Creek summit, 2 miles northwest of, 200 feet west of stage road, 2 poles east of point where stage road crosses telephone line; nail in base of stump of telephone pole, marked "U. S. 6725 Elev".....	6, 724. 18



	Feet.
Willow Creek summit, 2.6 miles northwest of, 40 feet west of stage road, 60 feet west of telephone line, 50 feet west of forks of main road and road leading up Sheep Creek; iron post stamped "6629 1912 42".....	6, 627. 637
Willow Creek summit, 4.4 miles northwest of, 0.5 mile east of stage road and telephone line, point of hill 285 feet west of old road to Sheep Creek, 1.8 miles north of Sheep Creek, 0.4 mile east of quarter-section post of General Land Office, 2 feet east of cairn 2 feet high; point on outcrop of lava rock encircled in white paint and marked "U. S. 6541 B. M.".....	6, 540. 05
Willow Creek summit, 5 miles north of, 2 feet north of road to Sheep Creek, 0.5 mile northeast of telephone and present stage lines, top of quarter-section post of General Land Office; painted "U. S. B. M." on post and stamped "6467".....	6, 465. 65
Willow Creek summit, 6.5 miles north of, 30 feet west of Warm Spring Creek wagon road, 1.5 miles east of the present stage and telephone lines, 40 feet southeast of forks in road, 1 mile northeast of ranch house; iron post stamped "6309 1912 43".....	6, 307. 887
Willow Creek summit, 8.1 miles north of, 30 feet east of Warm Spring Creek road, General Land Office quarter-section post between secs. 35 and 36, marked "U. S. B. M." on post with paint and stamped on top "6109".....	6, 107. 62
Willow Creek summit, 9.5 miles northwest of, 500 feet northwest of Mrs. West's desert claim, 400 feet north of Warm Spring Creek, 1 mile southeast of head of Grand View Canyon, 50 feet west of Warm Springs road, on line of fence; iron post stamped "6018 1912 44".....	6, 016. 273
Willow Creek summit, 10.6 miles northwest of, at head of Grand View Canyon, 350 feet north of dam across Warm Spring Creek, 10 feet east of road; point encircled in white paint on large boulder, marked "U. S. 5964 B. M.".....	5, 962. 66
Grand View Canyon, 1 mile below head of, 1 mile from dam, 225 feet south of second culvert for Warm Spring Creek, northeast side of stage road; point encircled in white paint on boulder, marked "U. S. 5845 B. M."..	5, 843. 31
Grand View Canyon, 2.4 miles northwest of head of, 2 miles southeast of Drake's home ranch, 100 feet east of Warm Spring Creek, 6 feet east of road; point encircled in paint on boulder, marked "U. S. 5726 B. M."..	5, 724. 23
Grand View Canyon, 0.8 mile northwest of lower end, 1 mile southeast of Drake's home ranch, 35 feet west of road, southeast corner of Drake's upper field, 30 feet west of corner of fence; iron post stamped "5652 1912 45".....	5, 650. 280
Grand View Canyon, 1.6 miles northwest of, 1,000 feet east of Drake's ranch house, 140 feet south of fence corner; spike in base of fence post, marked "U. S. 5579 Elev".....	5, 577. 43
Grand View Canyon, 3 miles downstream from, 14 miles southwest of Challis, 40 feet northwest of southwest corner of fence, 20 feet west of road, 600 feet east of D. C. Breyer's ranch house, 15 feet east of irrigation ditch; iron post stamped "5532 1912 46".....	5, 530. 974
Challis, 12 miles southeast of, at northwest corner of fence for lane; spike in base of corner fence post, marked "U. S. 5358 Elev".....	5, 359. 50
Challis, 10.7 miles southeast of, 4.1 miles southeast of Salmon River bridge, place where valley narrows down considerably, point where dugway on Warm River road crosses small saddle, 700 feet southeast of S. Van Camp's ranch house, 30 feet west of road, 15 feet west of line of fence, 500 feet east of Warm Spring Creek and small reservoir; iron post stamped "5310 1912 47".....	5, 308. 743

	Feet.
Challis, 9.8 miles southeast of, 1,000 feet northwest of S. Van Camp's ranch house, wagon bridge across Warm Spring Creek, west end of south side of; spike in center of painted cross, marked "U. S. 5270 B. M.".....	5, 268. 71
Challis, 7.2 miles southeast of, at foot of high bluff, west side of road, opposite southwest corner of James Rogers's upper field, 6-foot bowlder; point encircled by white paint, marked "U. S. 5215 B. M.".....	5, 213. 82
Challis, 6.4 miles southeast of, 1.5 miles south of Salmon River bridge (steel), 0.4 mile north of James Rogers's ranch house; point encircled by white paint, marked "U. S. 5143 B. M.".....	5, 141. 49
Challis, 4 miles south of, steel bridge over Salmon River, on stage road, west end of south side; in top of concrete abutment; bronze tablet stamped "4997 1912 48".....	4, 995. 153
Challis, 3 miles southeast of, point where stage road joins Warm Spring Creek road; spike in base of fence post, marked "U. S. 5008 B. M."....	5, 006. 59
Challis, 2 miles southeast of, point where Mackay stage road crosses high ditch, south end of east side of bridge; spike encircled in white paint, marked "U. S. 5007 Elev".....	5, 005. 36
Challis, 1.5 miles east of, 200 feet north of dry creek bed, beginning of lane, 20 feet east of road; spike in base of fence post, marked "U. S. 4967 B. M.".....	4, 964. 87

**RABBIT FOOT QUADRANGLE.**

[Latitude 44° 30'–45°; longitude 114°–114° 30'.]

**From point 1.5 miles east of Challis north along highway to Edson ranch.**

Challis, 2.4 miles northeast of, 0.5 mile south of stage road, east side of lane; spike in base of fence post, marked "U. S. 4966 B. M.".....	4, 963. 97
Challis, 3 miles northeast of, 0.8 mile north of Garden Creek, on stage road to Salmon, 35 feet west of corner of fence, 100 feet southwest of southwest corner of J. Q. Adams's field; iron post stamped "4937 1912 49".....	4, 935. 600
Challis, 4 miles northeast of, bridge over Challis Creek, east end of south side; nail encircled by white paint, marked "U. S. 4905 Elev".....	4, 903. 26
Challis, 5.3 miles northeast of, 600 feet north of point where road coming down draw joins stage road, 1,000 feet north of B. W. Phillip's ranch house; spike in base of fence post, marked "U. S. 4889 B. M.".....	4, 886. 99
Challis, 6.2 miles northeast of, on stage road to Salmon, 400 feet south of John Stevens ranch house, south end of east side of wagon bridge over Challis Creek; spike encircled by white paint, marked "U. S. 4860 Elev".....	4, 858. 37
Monument, center post 5, Gilmore & Pittsburg R. R. location line; top of post, marked "4841".....	4, 839. 09
Challis, 7.5 miles northeast of, on point of rocks known as McNabb's point, 1,000 feet south of G. H. Bruno's ranch house, 3 miles upstream from wooden wagon bridge over Salmon River, 0.5 mile upstream from foot bridge, 100 feet west of Salmon River, 30 feet east of by 10 feet above level of stage road, in lava rock; bronze tablet stamped "4815 1912 50".....	4, 813. 431
Challis, 8.5 miles northeast of, 3 feet northwest of stage road, 20 feet northwest of telephone line, 1,000 feet west of river; point encircled by white paint on bowlder, marked "U. S. 4815 B. M.".....	4, 813. 59
Challis, 9.5 miles northwest of, 1 mile north of J. Blume's ranch house, northeast corner of bridge on stage road over Morgan Creek, top log of bridge pier; spike encircled by white paint, marked "U. S. 4803 Elev"....	4, 801. 26

	Feet.
Challis, 10.9 miles northeast of, 1.5 miles downstream from McNabb's point, 0.5 mile upstream from Emil Kleupfer's ranch, west side of river, east side of line of fence and pole line, opposite high lava bluff, in low-lying lava boulder 3 by 3 feet; bronze tablet stamped "4750 1912 51".....	4, 748. 515
Challis, 11.3 miles northeast of, 1,000 feet northwest of Salmon River, 400 feet north of Emil Kleupfer's ranch house, 10 feet north of stage road; spike in base of fence post, marked "U. S. 4761 Elev".....	4, 758. 85
Challis, 11.6 miles northeast of, east end of south side of wooden wagon bridge over Salmon River, 3 feet above floor, on bridge timber; spike encircled by white paint, marked "U. S. 4751 B. M.".....	4, 749. 69
Challis, 12.6 miles southeast of, 900 feet east of Albert Blume's ranch house, 400 feet north of barn and corrals, 500 feet northwest of point where stage road starts up over bench, 200 feet above level of river, 10 feet north of ledge of rock bordering old river channel, 300 feet southwest of present channel, 12 feet above level of water; bronze tablet stamped "4723 1912 52".....	4, 720. 882
Challis, 13.8 miles northwest of, 1,000 feet northwest of ranch house, point where road goes down to level of river, 50 feet southeast of Salmon River; point on lava rock encircled by white paint, marked "U. S. 4709 Elev".....	4, 707. 07
Ellis, 7 miles southwest of, 60 feet north of point of rocks known as "Dead Man's Hole," 30 feet northwest of dugway, on edge of bluff over Salmon River, 12 feet above level of water, passing station for wagons, in lava rock; bronze tablet stamped "4701 1912 53".....	4, 699. 034
Ellis, 6.1 miles southeast of, 600 feet south of and 3 feet above level of stage road, 1.8 miles north of Dead Man's Hole; point encircled by white paint on large boulder, marked "U. S. 4846 Elev".....	4, 844. 71
Ellis, 5.4 miles south of, top of most northerly of series of summits, on bench, just north of Eagle Rock; nail in top of small peg witnessed by small cairn and beer bottle.....	4, 909. 22
Ellis, 4.1 miles southwest of, southeast corner of fence, 19 posts north of corner post; spike in base of fence post, marked "U. S. 4799 Elev".....	4, 796. 90
Ellis, 2.5 miles west of, 0.5 mile south of bridge over Pahsimaroi River, west line of fence, 400 feet west of stage road, nearest junction with Salmon River, 300 feet north of top of summit, 250 feet north of point where fence turns down over bench; spike in base of fence post, marked "U. S. 4763 B. M.".....	4, 761. 10
Pahsimaroi River, near junction of Salmon River, north side of bridge; surface of water November 7, 1912.....	4, 639. 7
Pahsimaroi River; elevation of bridge over.....	4, 643. 7
Ellis, 1.2 miles west of, 600 feet west of lower bridge over Pahsimaroi River, 100 feet southwest of Harry Harkey's ranch house, 1 foot north of fence; iron post stamped "4648 1912 54".....	4, 646. 312
Ellis, 1.6 miles north of, 0.5 mile northeast of Harry Harkey's ranch, top of summit, 20 feet west of road; spike in base of fence post, marked "U. S. 4857 Elev".....	4, 855. 145
Ellis, 2.2 miles north of, east side of Vance's upper field, 400 feet downstream from end of dugway, 0.5 mile southwest of house, 1,000 feet east of river, 100 feet west of road; spike in base of fence post, marked "U. S. 4663 B. M.".....	4, 661. 40
Ellis, 3.8 miles northwest of, 1 mile northeast of W. E. Vance's lower field, west side of Salmon River, opposite first rocky point on east side of river, 3 feet west of and 4 feet above level of stage road; point encircled by white paint on large boulder, marked "U. S. 4620 Elev".....	4, 618. 59

	Feet.
Ellis, 4 miles northeast of, 1.3 miles north of Vance's place, 2,000 feet below head of canyon, east side of river, 4 feet east of and about 2 feet above level of stage road, 15 feet above and 40 feet west of Salmon River, in lava rock; bronze tablet stamped "4607 1912 55".....	4, 605.520
Ellis, 5 miles north of, 0.5 mile downstream from mouth of canyon, where valley broadens considerably, 1 mile upstream from J. Well's ranch house, 20 feet west of and 10 feet below level of stage road, 20 feet east of and 15 feet above level of Salmon River; point encircled by white paint on large rock, marked "U. S. 4599 B. M.".....	4, 597.07
Ellis, 5.4 miles north of, 0.8 mile north of mouth of canyon, 0.5 mile south of J. Well's ranch house and mouth of Cow Creek, 100 feet west of and 12 feet above level of river, 3 feet east of stage road; point encircled by white paint on large boulder, marked "U. S. 4590 B. M.".....	4, 587.75
Ellis, 6.5 miles northeast of, 0.5 mile north of J. Well's ranch and mouth of Cow Creek, 40 feet west of northwest corner of Well's upper field, opposite long flume for irrigation ditch, over slide rock, 300 feet east of Salmon River, 10 feet east of stage road, in large lava boulder; bronze tablet stamped "4573 1912 56".....	4, 571.252
Ellis, 7.6 miles north of, 1.5 miles downstream from mouth of Cow Creek, point on bluff where dugway is blasted from solid rock, 40 feet above level of river, 20 feet south of stage road, outermost part of rock; point encircled by white paint, marked "U. S. 4572 B. M.".....	4, 569.70
Ellis, 8.5 miles north of, 100 feet south of bridge over Allison Creek, 100 feet west of stage road, 100 feet east of river; point on boulder encircled by white paint, marked "U. S. 4538 B. M.".....	4, 536.27
Ellis, 9 miles north of, 2 miles northeast of mouth of Allison Creek, 18 feet east of road, at foot of short dugway, southwest corner of J. Leonard's lower field, 200 feet south of large red-lava ridge, near river; iron post stamped "4529 1912 57".....	4, 526.70
Ellis, 10.5 miles north of, 0.5 mile north of schoolhouse, east side of Dick Leonard's ranch, 50 feet east of road, 1,000 feet east of river; point on large boulder encircled by white paint, marked "U. S. 4515 B. M.".....	4, 513.30
Ellis, 12.1 miles north of, opposite H. B. King's ranch house, 50 feet east of east line of fence and stage road, 600 feet south of point where stage road goes up over bluff, 20 feet south of gate to alfalfa field; point on large boulder encircled by white paint, marked "U. S. 4489 B. M.".....	4, 486.75
Ellis, 12.5 miles north of, 9 posts north of southwest corner of Guy Edward's upper field, 400 feet north of top of hill, 50 feet east of stage road; spike in base of fence post, marked "U. S. 4583 Elev." (should be 4582).....	4, 580.52
Ellis, 13 miles north of, southwest corner of Guy Edward's lower field, at point where road gets down to river bench, end of dugway, 1.5 miles north of McKimms Creek, 1,000 feet east of river, 10 feet east of stage road; iron post stamped "4481 1912 58" (should be 4478).....	4, 476.538
Ellis, 13.4 miles northeast of, 0.5 mile north of Guy Edward's ranch, opposite high bluff and slide rock, 200 feet east of river, 20 feet east of stage road, on slide-rock lava boulder; painted point encircled by white paint marked "U. S. 4450 B. M.".....	4, 447.67
Ellis, 14.4 miles northeast of, 600 feet downstream from Lambeth's ranch, 60 feet east and 8 feet above the level of Salmon River, 1,000 feet upstream from head of small canyon, 20 feet west of stage road, in large boulder partly embedded; bronze tablet stamped "4432 1912 59".....	4, 429.874
Ellis, 15.5 miles northeast of, 1 mile downstream from Lambeth's ranch, 900 feet south of Ringle ranch house, 200 feet east of river, 10 feet east of stage road; point encircled by white paint on large slide-rock boulder, marked "U. S. 4422 B. M.".....	4, 420.35

	Feet.
Ellis, 17.6 miles northeast of, 600 feet upstream from footbridge over Salmon River, across river from large ranch house, base of high bluff; point encircled by white paint on lava rock, marked "U. S. 4407 Elev".....	4, 404. 63
Ellis, 17.9 miles northeast of, 200 feet southeast of barn and haystacks at Edson ranch, 0.5 mile downstream from footbridge, 400 feet south of Edson Creek, 1,000 feet east of river, in white paint on face of large boulder; bronze tablet stamped "4393 1912 60".....	4, 390. 876

## MAY QUADRANGLE.

[Latitude 44° 30'-45°; longitude 113° 30'-114°.]

## From Edson ranch north along highway to Briney ranch.

Ellis, 19.6 miles northeast of, 0.4 mile north of district school No. 23, at base of high bluff, 6 feet west of stage road; point encircled by white paint on lava rock, marked "U. S. 4369 Elev".....	4, 366. 74
Ellis, 21.1 miles northeast of, 0.8 mile downstream from mouth of Edson Creek, 600 feet east of forks of roads, at base of high bluff, 3 feet south of road; point encircled by white paint on lava rock, marked "U. S. 4342 Elev".....	4, 340. 22
Ellis, 21.2 miles northeast of, 1 mile north of mouth of Warm Spring Creek, 0.4 mile south of W. Shultze's ranch, point where stage road passes over hill, 100 feet east of and 30 feet above level of river, 10 feet west of and about the level of stage road, in red-lava boulder; bronze tablet stamped "4367 1912 61".....	4, 365. 288
Salmon, 21.3 miles southwest of, 1 mile downstream from mouth of Rye Grass Creek, 300 feet east of river, 3 feet east of stage road, east line of fence of H. O. Harris's lower field; point encircled by white paint on large lava boulder, marked "U. S. 4322 B. M.".....	4, 320. 51
Salmon, 19.9 miles southwest of, 400 feet north of bridge over Prow Creek, 200 feet east of river, 40 feet west of stage road, 400 feet downstream from three very large conspicuous boulders, in channel of river, in large boulder; bronze tablet stamped "4316 1912 62".....	4, 314. 396
Salmon, 18.9 miles south of, 1,000 feet downstream from D. Spellman's ranch house, 600 feet upstream from point where dugway is cut from solid rock, 1,000 feet upstream from high cliff, projecting ledge on east side of river, 20 feet above level of water, 20 feet west of and 3 feet below level of stage road; point encircled by white paint on lava rock, marked "U. S. 4295 B. M.".....	4, 292. 59
Salmon, 18.3 miles south of, 1 mile downstream from D. Spellman's ranch, 0.5 mile downstream from Second Creek, 300 feet east of river, 50 feet east of stage road; point encircled by white paint on large boulder, marked "U. S. 4286 B. M.".....	4, 284. 34
Salmon, 17.7 miles south of, 1.8 miles downstream from D. Spellman's ranch, 1 mile downstream from Second Creek, 25 feet east of and 9 feet above level of Salmon River, 30 feet west of stage road, in large boulder; bronze tablet stamped "4263 1912 63".....	4, 260. 607
Salmon, 16.3 miles south of, 0.5 mile south of W. A. Briney's ranch house, opposite southeast corner of upper field, 3 feet south of Briney's ditch, 6 feet west of stage road; point encircled by white paint on large boulder, marked "U. S. 4270 B. M.".....	4, 267. 99
Salmon, 15.7 miles south of, 100 feet northwest of W. A. Briney's ranch house, 2 feet west of fence and large gate, 100 feet east of river; iron post stamped "4241 1912 64".....	4, 238. 530

## SALMON QUADRANGLE.

[Latitude 45°-45° 30'; longitude 113° 30'-114°.]

From Briney ranch north along highway to Salmon.

Feet.

Salmon, 14.3 miles south of, 1.2 miles north of W. A. Briney's ranch house, 1,000 feet south of T. J. Stroud's upper field, 400 feet east of river, 25 feet east of stage road; point encircled by white paint on large boulder, marked "U. S. 4321 B. M." (should be marked 4229).....	4, 229. 04
Salmon, 13.4 miles south of, west bank of T. J. Stroud's ditch, 100 feet southeast of point where stage road crosses ditch; point encircled by white paint on large boulder, marked "U. S. 4267 Elev".....	4, 265. 76
Salmon, 12.7 miles south of, 300 feet north of Twelvemile Creek, 800 feet northwest of T. J. Stroud's ranch house, 60 feet north of Twelvemile schoolhouse, 50 feet west of stage road, 2 feet west of fence; iron post stamped "4279 1912 65".....	4, 276. 776
Salmon, 11.3 miles south of, 0.5 mile north of north fence of Stroud's lower field, 300 feet east of river, 10 feet west of stage road; point encircled by white paint on large boulder, marked "U. S. 4171 B. M.".....	4, 169. 11
Salmon, 11 miles south of, 200 feet southeast of southeast corner of T. J. Harding's upper field, 400 feet east of river, 100 feet east of stage road; point encircled by white paint on large boulder, marked "U. S. 4158 B. M.".....	4, 156. 10
Salmon, 10.4 miles south of, center of east side of bridge over Tenmile Creek; spike encircled by white paint, marked "U. S. 4163 Elev".....	4, 160. 56
Salmon, 9.7 miles south of, east side of T. J. Harding's upper field, 25 feet east of east-line fence, 6 feet east of stage road, 1.5 miles south of T. J. Harding's house and barns, in conspicuous outcrop of granite at point of hill; bronze tablet stamped, "4120 1912 66".....	4, 117. 453
Salmon, 8.9 miles south of, 0.2 mile southeast of Harding's ranch house, 40 feet east of east line of fence for upper field, 10 feet west of stage road, point where stage road leads up over point of rock; point encircled by white paint on lava rock, marked "U. S. 4112 B. M.".....	4, 109. 78
Salmon, 6.9 miles south of, 1 mile north of T. J. Harding's ranch, 25 feet east of Salmon River, 12 feet above level of river, 3 feet east of and 3 feet above level of stage road, projecting point of rock, 30 feet north of old prospect hole, in face of ledge; bronze tablet stamped "4066 1912 67".....	4, 063. 937
Salmon, 6.7 miles south of, bridge over Fourmile Creek, south end of west side; driftbolt encircled by white paint and marked "U. S. 4080 Elev" (should be 4078).....	4, 078. 41
Salmon, 6.1 miles south of, west end of south side of small bridge, east end of approach to wagon bridge over Salmon River, 600 feet east of river; nail encircled by white paint; marked "U. S. 4043 Elev".....	4, 040. 86
Salmon, 5.3 miles south of, 125 feet south of point where stage road crosses irrigation ditch, 0.8 mile north of bridge over Salmon River, west side of stage road; spike in base of fence post, marked "U. S. 4035 B. M.".....	4, 033. 04
Salmon, 5.2 miles south of, 600 feet south of J. McKelvey's ranch house, 0.9 mile north of bridge over Salmon River, southeast corner of road intersection; iron post stamped "4037 1912 68".....	4, 034. 671
Salmon, 3.9 miles south of, intersection of north and east roads at Weir's ranch; spike in base of telephone pole, marked "U. S. 4018 Elev".....	4, 015. 86
Salmon, 3.1 miles south of, center one of three small bridges over Warm Spring Creek; driftbolt encircled by white paint, marked "U. S. 3997 Elev" (should be 3998).....	3, 997. 84
Salmon, 1.9 miles south of, northeast corner of Azline ranch, intersection of roads, in line of north-south fence; iron post stamped "3970 1912 69".....	3, 968. 030

	Feet.
Salmon, at intersection of Lena Street and stage road to Challis; in culvert; copper bolt marked "U. S. B. M." .....	3, 955. 60
Salmon, west side of concrete steps at front entrance to Pioneer Bank building, about 2 feet above level of sidewalk; aluminum tablet stamped "1910" .....	3, 939. 647
Salmon, at northeast corner of Lemhi County courthouse, on stone coping about 3 feet above level of ground; aluminum tablet .....	4, 002. 725
Salmon, 1 mile east of, Gilmore & Pittsburg R. R. water tank, in south concrete pillar abutment; iron bolt encircled by red paint (3,959.862 is Barringer's elevation based upon 1912 adjustment at Barratts, Mont.)...	3, 963. 044

#### May and Salmon quadrangles.

#### LEMHI COUNTY.

The following elevations were determined by an unchecked line of primary levels based on Coast and Geodetic Survey bench mark "W," 1.2 miles south of Barratts, Mont. A connection was made by D. S. Birkett in 1912 with the last bench mark of the Idaho part of this line, his corrected elevation being 3.182 feet greater than the value of that bench mark by this line.

The leveling was done in 1910 by W. H. Barringer.

#### MAY QUADRANGLE.

[Latitude 44° 30'-45°; longitude 113° 30'-114°.]

From Idaho-Montana State line along trail to point 4 miles southeast of Sunfield (unadjusted line).

	Feet.
Midway, 5 miles west of, along Salmon City road, about halfway between summit and bottom of long hill, in broad horseshoe bend; chisel point on boulder, painted "U. S. B. M. 6967" .....	6, 964. 63
Midway, 7 miles west of, 1.5 miles east of Copper Queen mine, near foot of steep grade on west side of divide, 1,000 feet west of forks of two deep gulches, north side of road; chisel point on boulder, painted "U. S. B. M." .....	6, 451. 92
Sunfield, 0.2 mile east of Copper Queen mine, Salmon City road, deep canyon, under and south of rocky outcrop and rocky slide; chisel point on large boulder, painted "U. S. B. M." .....	6, 101. 07
Copper Queen mine, 0.2 mile north of, at Copper Queen stage station, 300 feet east of station; chisel point on quartz boulder, painted "U. S. B. M." ..	5, 895. 04
Sunfield, 8 miles east of, 1.8 miles north of Copper Queen mine, northwest corner of log house at Cold Springs ranch, in boulder; aluminum tablet..	6, 728. 106
Sunfield, 6.8 miles east of, 1.2 miles west of Cold Springs ranch, 0.2 mile west of old log house and corral, on lower side of road; chisel point on large boulder, painted "U. S. B. M." .....	5, 615. 26
Sunfield, 4 miles east of, 4 miles west of Cold Springs ranch, on south side of road; chiseled point on small rock in ground, painted "U. S. B. M." ..	5, 384. 32
Sunfield, west of Cold Springs ranch, at sharp turn in road, on lower side of road; chisel point on boulder, painted "U. S. B. M." .....	5, 290. 91
Sunfield, 4.5 miles east of, west of Copper Queen mine, 2.5 miles east of forks of Junction and Salmon-Red Rock roads, south side of road, in boulder; aluminum tablet. ....	5, 097. 730

**SALMON QUADRANGLE.**

[Latitude 45°-45° 30'; longitude 113° 30'-114°.]

**From Sunfield along highway to Salmon (unadjusted line).**

	Feet.
Fendoy station, Gilmore & Pittsburg R. R., green water tank, south side of east main concrete pillar foundation; aluminum tablet.....	4, 821. 238
Fendoy, 2.2 miles north of, south end of east side of Gilmore & Pittsburg R. R. trestle 70 feet long; copper nail in stringer, painted "U. S. B. M."..	4, 719. 66
Fendoy, 3.5 miles north of, 60-foot trestle over Lemhi River, north end of east side; copper nail in stringer, painted "U. S. B. M.," aluminum tag..	4, 669. 67
Fendoy, north of, yellow ranch house, Gilmore & Pittsburg R. R., Salmon City road crossing, 250 feet north of, northeast corner of yard, in bowlder; aluminum tablet.....	4, 605. 404
Fendoy, north of, 75-foot Gilmore & Pittsburg R. R. trestle over Lemhi River, north end of east side; copper nail in stringer, painted "U. S. B. M.," with aluminum tag.....	4, 505. 15
Fendoy, north of, 300 feet from small wagon bridge and farm crossing, 35-foot Gilmore & Pittsburg R. R. trestle over Lemhi River; copper nail in stringer, painted "U. S. B. M.," and aluminum tag.....	4, 423. 02
Salmon, 6.3 miles south of, at lane crossing, 400 feet southeast of small blue house, south side of lane, 100 feet west of track, in bowlder; aluminum tablet, marker painted "U. S. B. M.".....	4, 238. 326
Salmon, 4.8 miles south of, north end of east side of 75-foot Gilmore & Pittsburg R. R. trestle; copper nail in stringer, painted "U. S. B. M.," aluminum tag.....	4, 177. 13
Salmon, south of, at Lee's ranch, 300 feet north of Gilmore & Pittsburg R. R., in center of farmyard; sandstone monument set in cement, aluminum tablet.....	4, 076. 275
Salmon, 1 mile east of, Gilmore & Pittsburg R. R. water tank; iron bolt set in south concrete pillar abutment (Birkett's corrected value of this bench mark is 3,963.044; difference equals 3.182 feet).....	3, 959. 862

**Chatcolet, Fernwood, and Taft quadrangles.****KOOTENAI AND SHOSHONE COUNTIES.**

The elevations of the following bench marks were determined by primary levels and agree with elevations in adjacent quadrangles. An unchecked spur line was run from St. Maries southeast along the Elk River branch of the Chicago, Milwaukee & Puget Sound Ry. to Clarkia, which will probably be closed later.

The leveling was done in 1911 by D. S. Birkett, except that the bench mark at Lovell in the Chatcolet quadrangle was set in 1903 by E. M. Fry.

**CHATCOLET QUADRANGLE.**

[Latitude 47°-47° 30'; longitude 116° 30'-117°.]

**At Lovell.**

	Feet.
Lovell, 150 feet west of section house, 100 feet east of railroad tool house, 10 feet west of milepost 407, 20 feet south of track; iron post stamped "2586 S".....	2, 587. 882



**From point near St. Maries northwest along Chicago, Milwaukee & Puget Sound Ry. to Harrison.**

	Feet.
St. Maries, 2.5 miles east of station, 15 feet east of road crossing, 50 feet north of railroad, 2 feet south of right-of-way fence, 90 feet north of switch leading into "Material Yard"; iron post stamped "2138 1911 26" .....	2, 138. 549
St. Maries, 1.25 miles east of station, 108 feet east of point of spur to sawmill where it leaves main line, 50 feet south of road; spike at base of large gate post, marked "U. S. 2143 B. M." .....	2, 143. 50
St. Maries, corner of College Avenue and First Street, 250 feet south of railroad, northeast corner of Kootenai County State Bank, in top of concrete step; bronze tablet stamped "2150 1911 27" .....	2, 150. 765
St. Maries, at northwest corner of College Avenue and First Street; elevation of City of St. Maries's concrete bench mark. ....	2, 145. 81
St. Maries, in front of station, opposite semaphore staff; top of rail. ....	2, 143. 3
St. Maries, 0.6 mile west of station, at first through cut on railroad west of city; point in circle of paint on basalt rock, marked "U. S. 2142 B. M." ..	2, 142. 06
St. Maries, 2.25 miles west of, 18 feet north of road crossing, 30 feet north of railroad, in line of telegraph poles, 8 feet east of pole; iron post stamped "2140 1911 28" .....	2, 140. 625
Ramsdell, 0.9 mile east of, 600 feet west of house on Sweeny Place, in through cut, 15 feet south of railroad; point in circle of paint on rock, marked "U. S. 2144 B. M." .....	2, 144. 84
Ramsdell, at station, in front of semaphore staff; top of rail. ....	2, 142. 0
Ramsdell, 40 feet east of section foreman's house, 22 feet west of center of water tank, 52 feet south of nearest rail of railroad, 52 feet south of semaphore staff in front of station; iron post stamped "2141 1911 29" .....	2, 141. 650
Ramsdell, 1.3 miles northwest of, 850 feet east of Maxwell's boat landing, 30 feet north of St. Joe River, 12 feet south of private road along river bank; large spike painted white in base of very large post of former fence gate, marked "U. S. 2133 B. M." .....	2, 132. 99
Ramsdell, 2 miles northwest of, 0.5 mile north of St. Joe River, 160 feet south of house on Christian Olsen's place; copper nail in top of pine stump, marked "U. S. 2133 B. M." .....	2, 133. 43
T. 46 N., R. 4 W., 4 miles east of Chatcolet, 20 feet south of house on C. A. Berry's place, 35 feet north of gate to yard, 0.8 mile north of St. Joe River; iron post stamped "2134 1911 31" .....	2, 134. 401
Coeur d'Alene Lake, 0.8 mile southeast of long trestle over lake; marked elevation on rock at edge of lake, marked "2129" .....	2, 129. 4
Chatcolet, 2 miles east of, 100 feet west of house near edge of Coeur d'Alene Lake, on A. J. Smith's place; copper nail in root of tree, marked "U. S. 2130 B. M." .....	2, 130. 20
Chatcolet, 1.5 miles east of station, 100 feet east of east end of long trestle at south end of Coeur d'Alene Lake, 55 feet south of railroad track, on hillside, 150 feet east of edge of lake; iron post stamped "2134 1911 32" ....	2, 134. 458
Chatcolet, 2.5 miles east of, 358 feet west of trestle E 28, in through cut, 15 feet south of track; point in circle of paint on rock, marked "U. S. 2141 B. M." .....	2, 141. 66
T. 47 N., R. 3 W., sec. 17, 3 miles south of Harrison, 300 feet north of mile-post 27; 650 feet north of trestle, 45 feet west of railroad track, 50 feet east of edge of Coeur d'Alene Lake, at Master's place; iron post stamped "2138 1911 33" .....	2, 138. 407
Lacon, 2.3 miles south of Harrison, 150 feet north of signboard, 15 feet west of tracks; point in circle of white paint on basalt rock, marked "U. S. 2141 B. M." .....	2, 141. 63

Feet.

Harrison, 1.1 miles south of, 20 feet east of railroad track; spike in top of pine stump, marked "U. S. 2141 B. M.".....	2, 141. 41
Cœur d'Alene Lake; surface of water September 4, 1911.....	2, 124. 3
Harrison, 0.4 mile south of station, 650 feet south of milepost 30; cross within circle of paint on concrete base of semaphore staff, marked "U. S. 2138 B. M.".....	2, 138. 47
Harrison, in front of signboard; top of rail.....	2, 138. 7

**From St. Maries southeast along Elk River branch of Chicago, Milwaukee & Puget Sound Ry. to point 1 mile southeast of Rover (unchecked spur line).**

St. Maries, 1.3 miles southeast of, 900 feet south of sign "Station 1 mile," 15 feet east of railroad; spike in top of pine stump, marked "U. S. 2141 B. M.".....	2, 141. 58
St. Maries, 2.4 miles southeast of, 200 feet south of end of short logging spur, 45 feet east of railroad, 5 feet south of crossing of road leading to barn on John Flint's place, in line of fence; iron post stamped "2142 1911 34" ..	2, 142. 118
St. Maries, 4.1 miles southeast of, 35 feet north of road crossing, 25 feet east of track; copper nail in top of pine stump 2 feet high, marked "U. S. 2139 B. M.".....	2, 139. 70
St. Maries, 5.7 miles southeast of, 1.9 miles north of section foreman's house, 10 feet west of railroad, 1,600 feet north of road crossing; point on quartzite rock overlain by basalt lava, marked "U. S. 2143 B. M.".....	2, 143. 05
St. Maries, 7.5 miles southeast of, 1.4 miles northwest of Lotus, 350 feet north of bridge crossing St. Maries River, 45 feet east of railroad, 65 feet south by 15 feet east of section foreman's house; iron post stamped "2155 1911 35".....	2, 155. 316
Lotus, 0.3 mile northeast of station, 8 feet north of track, 250 feet west of culvert 2049; point on quartzite rock of railroad cut, in circle of paint, marked "U. S. 2171 B. M.".....	2, 171. 54
Lotus, 1 mile southeast of, 700 feet northwest of water tank, 15 feet north of railroad, in quartzite rock painted "S. B. M. No. 36;" bronze tablet stamped "2214 1911 36".....	2, 214. 272
Rover, 1.9 miles northwest of, 400 feet south of sign "Water tank 1 mile," 15 feet north of track; point on rock in circle of paint, marked "U. S. 2272 B. M.".....	2, 272. 43
Rover, 0.6 mile northwest of, 0.4 mile west of west portal of tunnel 1, 10 feet south of tracks; point in circle of paint on basalt rock, marked "U. S. 2380 B. M.".....	2, 380. 08
Rover, in front of station sign; top of rail.....	2, 431. 2
Rover, 0.5 mile southeast of, 0.5 mile northwest of water tank, 12 feet north of tracks; point in circle of paint on basalt lava rock, marked "U. S. 2452 B. M.".....	2, 451. 88
Rover, 1 mile southeast of, opposite old wing dam in river, 600 feet northwest of water tank, 12 feet north of track, near figures "S. B. M. No. 37" painted on rock, in basalt lava rock of railroad side cut; bronze tablet stamped "2469 1911 37".....	2, 469. 383
Rover, 2 miles southeast of, 130 feet southeast of sign "Water tank one mile," 10 feet northwest of railroad; copper nail in top of stump 2 feet high, marked "U. S. 2517 B. M.".....	2, 516. 87

**From Maxwell's boat landing to point on St. Joe River 4.5 miles east of Chatcolet (single unchecked line).**

Chatcolet, 4.5 miles east of, 2.3 miles down St. Joe River from Ramsdell, 1,000 feet down river from Long Point landing, on J. A. Nye's place, 45 feet north of St. Joe River, 15 feet north of private road along river bank, in fence line; iron post stamped "2131 1911 30".....	2, 131. 429
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## TAFT QUADRANGLE.

[Latitude 47°-47° 30'; longitude 115° 30'-116°.]

## From Mullan east along Northern Pacific Ry. to Lookout.

	Feet.
Mullan, 15 feet west of station, at corner of sidewalk at base of Northern Pacific Ry. steps; iron post stamped "3244 S".....	3, 244. 855
Mullan, 1 mile east of, 100 feet west of sign "Water $\frac{1}{2}$ mile," 35 feet south of railroad; spike in base of telegraph pole, marked "U. S. 3336 B. M."..	3, 335. 76
Larson, 2 feet east of northeast corner of station, 30 feet south of railroad; spike in base of telegraph pole, marked "U. S. 3492 B. M.".....	3, 492. 19
Larson, 0.8 mile east of, 105 feet west of railroad crossing, 530 feet east of milepost 118, 10 feet north of track; point on top of 4 by $1\frac{1}{2}$ by $2\frac{1}{2}$ foot boulder, marked "U. S. 3584 B. M.".....	3, 584. 28
Larson, 1.3 miles east of, west end of south side of steel bridge 73, in concrete abutment; aluminum tablet stamped "3629 1911 1".....	3, 629. 577
Larson, 2 miles east of, 0.3 mile from Pottsville, 20 feet north of railroad; spike in base of telegraph pole, marked "U. S. 3691 B. M.".....	3, 691. 27
Lookout, 1.9 miles west of, 110 feet east of point where wagon road from Larson to Taft crosses railroad, 600 feet west of trestle 60, in through cut, 10 feet north of railroad, in rock ledge; aluminum tablet stamped "4390 1911 2".....	4, 390. 499
Lookout, 0.9 mile west of, at east end on north side of trestle 57, on foundation for approach 3 feet below top of rail, nail stamped "08" encircled with white paint, marked "U. S. 4574 B. M.".....	4, 574. 52
Lookout, 250 feet south of Montana-Idaho boundary line, at summit of Bitter Root Mountains; 30 feet west of station; iron post stamped "4727 S"..	4, 727. 268

## From St. Paul Pass southwest along Chicago, Milwaukee &amp; Puget Sound Ry. to point 3.7 miles west of Ethelton.

St. Paul Pass, summit of Bitter Root Mountains, 20 feet east of Idaho-Montana State line, 50 feet south of old wagon road from Taft to Grand Forks; iron post stamped "5163 1911 7".....	5, 163. 414
Roland, in front of station; top of rail.....	4, 148. 3
Roland, west portal of St. Paul Pass tunnel, 260 feet south of station, 35 feet west of track, in concrete foundation of turntable house; bronze tablet stamped "4147 1911 8".....	4, 146. 653
Roland, 0.7 mile southwest of, on north side of wagon road from Taft to Grand Forks; point on rock, marked "U. S. 3829 B. M.".....	3, 829. 65
Grand Forks (former site of), 0.5 mile north of Falcon, 5 feet northeast of point where road from Avery to Taft meets the road leading up east branch of North Fork of St. Joe River; copper nail at base of 2-foot pine stump 2 feet high, marked "U. S. 3234 B. M.".....	3, 234. 58
Falcon, in front of station, 10 feet north of track, in concrete base of semaphore staff; bronze tablet stamped "3413 1911 9".....	3, 413. 155
Falcon, 1.1 miles west of, 10 feet north of track, on top of concrete retaining wall; cross within circle of white paint, marked "U. S. 3314.4 B. M."...	3, 314. 57
Falcon, 2.7 miles west of, 100 feet west of west portal of tunnel 29, 30 feet north of track; spike in base of telegraph pole, marked "U. S. 3185 B. M."...	3, 185. 34
Kyle, 1.9 miles east of, 3.6 miles west of Falcon, 0.5 mile west of tunnel 32, 800 feet east of tunnel 31, 10 feet north of track, in top of concrete retaining wall of roadbed; bronze tablet stamped "3093 1911 10".....	3, 092. 927
Kyle, 0.9 mile east of, 0.2 mile east of tunnel 32, east end of steel bridge on north side on top of concrete abutment of approach; cross within circle of white paint, marked "U. S. 3051 B. M.".....	3, 050. 86

	Feet.
Kyle, 0.4 mile east of, 250 feet east of section foreman's house, 0.2 mile west of tunnel 32, 10 feet north of track, on top of concrete base of semaphore staff; cross within circle of white paint, marked "U. S. 3017 B. M.".....	3,017. 43
Kyle, in front of semaphore staff; top of rail.....	2,991. 8
Kyle, 0.5 mile west of, 300 feet west of tunnel 33, 10 feet south of track, top of concrete base of semaphore staff; cross within circle of white paint, marked "U. S. 2955 B. M." (should be 2956).....	2,956. 45
Stetson, 1.4 miles east of, east end of north side of steel bridge over St. Joe River, west end of concrete abutment of approach, on top; bronze tablet stamped "2838 1911 11".....	2,838. 068
Stetson, 0.3 mile east of, 0.2 mile west of tunnel 34, 10 feet south of tracks, concrete base of stand for conducting signal wires down to ground to connect with semaphore across track; point encircled with paint, marked "U. S. 2758 B. M.".....	2,758. 51
Stetson, 1.25 miles west of, 350 feet east of tunnel 36, 15 feet south of railroad; point on rock of railroad cut, marked "U. S. 2634 B. M.".....	2,634. 60
Avery, 1.4 miles east of, 700 feet west of sign "Station one mile," 20 feet south of railroad; point on rock of railroad cut, marked "U. S. 2549 B. M.".....	2,549. 63
Avery, in front of station, opposite semaphore staff; top of rail.....	2,487. 4
Avery, 3 feet east of northeast corner of new post-office building on U. S. Forest Service ground, 40 feet south of St. Joe River; iron post stamped "2492 1911 12".....	2,492. 182
Avery, 1.4 miles west of, 800 feet east of sign "Yard Limits," 15 feet north of tracks; railroad spike in base of telegraph pole, marked "U. S. 2471 B. M.".....	2,471. 21
Avery, 2.3 miles west of, 430 feet west of sign "Station 1 mile," opposite point where Fishhook Creek enters St. Joe River from south, 40 feet south of point on huge rock encircled with white paint, marked "U. S. 2458 B. M.".....	2,458. 46
Avery, 3.6 miles west of, 0.5 mile west of section house near conspicuous contact of granite with quartzite showing in recently excavated right of way, 10 feet north of track; point on rock, marked "U. S. 2444 B. M."..	2,444. 05
Ethelton, 5.1 miles west of Avery, on rock dump intended for erection of section house, 45 feet south of track, 15 feet south by 1 foot west of station house; iron post stamped "2419 1911 13".....	2,419. 070
Ethelton, 1 mile west of, 40 feet east of gate leading to Chas. E. Hoyt's place, 15 feet south of track; spike in top of pine stump, marked "U. S. 2404 B. M.".....	2,403. 90
Ethelton, 1.9 miles east of, north side of bridge E E 2 spanning Slate Creek, 10 feet from west end, in top of guard stringer spike, encircled with paint, marked "U. S. 2394 B. M.".....	2,393. 99
Ethelton, 3.7 miles west of, 140 feet west of small creek entering from north, 30 feet west of telegraph pole painted "P. B. M. No. 14," 17 feet south of track, in rock; bronze tablet stamped "2366 1911 14".....	2,366. 676

## FERNWOOD QUADRANGLE.

[Latitude 47°-47° 30'; longitude 116°-116° 30'.]

From point 3.7 miles west of Ethelton west along Chicago, Milwaukee & Puget Sound Ry. to point 2.5 miles east of St. Maries.

Pocono, 3.5 miles east of, 700 feet west of contact of large granite mass with quartzite showing along right of way, 100 feet west of small stream entering St. Joe River from north, 12 feet south of track, in through cut of railroad grade; point on quartzite rock, marked "U. S. 2351 B. M."... 2,351. 74

	Feet.
Pocono, 1.9 miles east of, 0.5 mile east of water tank, east end of a through cut of railroad, 15 feet south of track, point on quartzite rock, marked "U. S. 2331 B. M." .....	2, 331. 55
Pocono, 1.4 miles east of, 600 feet east of water tank, 60 feet north by 20 feet west of telegraph pole painted "P. B. M. No. 15," 30 feet north of track, 3 feet above ground, in granite rock; bronze tablet stamped "2326 1911 15" .....	2, 326. 128
Pocono, 0.2 mile east of station, 15 feet north of track; point on quartzite rock, marked "U. S. 2307 B. M." .....	2, 306. 93
Pocono, in front of station; top of rail .....	2, 303. 0
Pocono, 0.4 mile west of station, 50 feet east of section foreman's house, 25 feet west of section tool house, 20 feet south of track; iron post stamped "2299 1911 16" .....	2, 299. 143
Copper Prince, 60 feet east of station, 200 feet east of Prince Creek, 15 feet south of tracks; iron post stamped "2278 1911 17" .....	2, 278. 314
Copper Prince, 1 mile west of station, 2 miles east of Herrick, 560 feet east of trestle E E 6, 15 feet south of track, in through cut; point on rock in circle of paint, marked "U. S. 2263 B. M." .....	2, 263. 37
Herrick, 1 mile east of, 500 feet west of tunnel 37, 45 feet north of tracks, in top of cedar stump $3\frac{1}{2}$ feet high; spike marked "U. S. 2243 B. M." ..	2, 242. 91
Herrick, 130 feet east of station, 75 feet north of main line, in triangle formed by logging Y connecting with tracks, 45 feet east of logging road past post office, 70 feet north of culvert 81; iron post stamped "2226 1911 18" .....	2, 226. 503
Herrick, 1 mile west of, 60 feet west of sign "Station 1 mile," 30 feet south of railroad; spike in base of telegraph pole, marked "U. S. 2233 B. M." ....	2, 232. 93
Herrick, 1.8 miles west of, in middle of through cut, 12 feet south of railroad; point in circle of paint on rock, marked "U. S. 2228 B. M." .....	2, 228. 58
Herrick, 2 miles west of, 100 feet west of little creek, 50 feet north of tracks, 65 feet west of trestle E E 10; iron post stamped "2225 1911 19" .....	2, 225. 271
Calder, 0.8 mile east of, 0.6 mile west of sign "Station 1 mile," 30 feet south of track; spike in base of telegraph pole, marked "U. S. 2202 B. M." .....	2, 202. 46
Calder (Elk Prairie), 20 feet south of post office, in southeast corner of H. J. Holbrook's yard, 45 feet north of tracks, 200 feet west of section foreman's house; iron post stamped "2188 1911 20" .....	2, 188. 248
Calder, 1.1 miles west of, in cap of wooden bent of trestle E E 14 over Little Creek, 60 feet from west end of trestle, on north side, 3 feet below top of rail; railroad spike, marked "U. S. 2186 B. M." .....	2, 185. 80
Calder, 2.5 miles west of, 2 miles east of Zane, near site of gaging station, in middle of through cut, 8 feet north of railroad; point in circle of paint on rock, marked "U. S. 2185 B. M." .....	2, 185. 78
Zane, 875 feet west of signboard, in side cut, 15 feet north of track, in quartzite rock 2 feet above roadbed, rock painted "P. B. M. No. 21" above tablet; bronze tablet stamped "2164 1911 21" .....	2, 164. 679
Zane, 1.3 miles west of, 300 feet east of point opposite ranch house, 0.3 mile east of steel bridge, 15 feet north of track; point in circle of paint on rock, marked "U. S. 2163 B. M." .....	2, 163. 77
St. Joe, 3.7 miles east of, east end of steel bridge over St. Joe River, on north side, in top of concrete abutment; aluminum tablet stamped "2164 1911 22" .....	2, 163. 936
St. Joe, 1.3 miles east of, 0.4 mile east of sign "Station 1 mile," 50 feet south of track, 100 feet southwest of old log cabin; copper nail in charred cedar stump, marked "U. S. 2152 B. M." .....	2, 152. 75

Feet.

St. Joe, 0.4 mile east of station, 60 feet west of wagon-road crossing, 50 feet north of track, 100 feet south of St. Joe River; iron post stamped "2138 1911 23".....	2, 138. 347
St. Joe, at station, in front of semaphore staff; top of rail.....	2, 147. 3
St. Joe, 0.8 mile east of station, 350 feet east of most westerly sidetrack, opposite row of company houses, 40 feet south of track; copper nail in base of cedar stump, marked "U. S. 2148 B. M.".....	2, 147. 86
St. Joe, 2.5 miles west of, 1,350 feet east of road crossing, 140 feet east of culvert 93, 40 feet north of track; point in circle of paint on top of rock, marked "U. S. 2150 B. M.".....	2, 150. 45
St. Joe, 4 miles west of, west end of big swamp, 0.5 mile east of road crossing, 20 feet north of track; copper nail in top of cedar stump, marked "U. S. 2143 B. M.".....	2, 143. 70
St. Joe, 4.5 miles west of, on Mr. Martin's place, 85 feet east of point where county road turns up mountain to south, 60 feet west of trestle E E 30, 50 feet south of tracks, 50 feet east of barn, in fence corner of garden; iron post stamped "2134 1911 24".....	2, 134. 225
Omega, 1.1 miles east of, on railroad through cut, on sharp curve, 15 feet north of railroad; point in circle of paint on rock, marked "U. S. 2145 B. M.".....	2, 145. 22
Omega, 400 feet west of signboard, 125 feet north of railroad, 90 feet south of St. Joe River, 2 feet east of north-south fence, 45 feet south of barn on ranch, 60 feet north of edge of right of way; iron post stamped "2137 1911 25".....	2, 137. 655
Omega, 2.4 miles west of, 110 feet west of private railroad crossing on John Bowlton's place; copper nail in top of culvert 231 on south side, marked "U. S. 2132 B. M.".....	2, 132. 41
St. Maries, 2.5 miles east of station, 15 feet east of road crossing, 50 feet north of tracks, 2 feet south of right of way fence, 90 feet north of switch leading into "material yard;" iron post stamped "2138 1911 26".....	2, 138. 549
<b>From Flat Creek dam southeast along Elk River branch of Chicago, Milwaukee &amp; Puget Sound Ry. to Clarkia (single unchecked spur line).</b>	
Flat Creek dam, 2.4 miles southeast of Rover, 60 feet south of bridge (top of Flat Creek dam) over St. Maries River, 30 feet west of road leading to bridge; iron post stamped "2523 1911 38".....	2, 523. 270
Flat Creek dam, 1.1 miles southeast of, 20 feet north of track, in railroad side cut; point in circle of paint on basalt rock, marked "U. S. 2543 B. M.".....	2, 543. 49
Mashburn, 1.7 miles northwest of, 600 feet southwest of cabin of old logging camp, 35 feet east of track; copper nail in top of cedar stump 3½ feet high, marked "U. S. 2568 B. M.".....	2, 568. 63
Mashburn, 1 mile northwest of, at northwest end of long fill, 15 feet north of track; point in circle of paint on quartzite rock, marked "U. S. 2575 B. M.".....	2, 575. 01
Mashburn, 50 feet west of station sign, 55 feet south of track, 270 feet east of new barn, in line of right of way fence; iron post stamped "2582 1911 39".....	2, 582. 446
Mashburn, at west end of wagon bridge; top of rail.....	2, 595. 8
Mashburn, 1 mile southeast of, 150 feet west of two log cabins, 6 feet east of private road, 20 feet south of center of track; copper nail in top of pine stump 3 feet high, marked "U. S. 2614 B. M.".....	2, 613. 96
Santa, 1.5 miles west of, at road crossing; top of rail.....	2, 613. 0

	Feet.
Santa, 1.2 miles northeast of, opposite sign "Station 1 mile," 60 feet west of culvert 2093; spike in top of large stump 15 feet north of tracks, marked "U. S. 2633 B. M.".....	2, 633. 78
Santa, 75 feet west by 65 feet south of sign "Santa," 50 feet south of railroad, 40 feet west of road crossing; iron post stamped "2674 1911 40".....	2, 674. 274
Santa, 1 mile west of, 110 feet east of sign "Station 1 mile," 15 feet south of track; nail in top of stump, marked "U. S. 2709 B. M.".....	2, 709. 55
Santa, 2 miles east of, 0.4 mile east of road crossing, 0.2 mile west of sign "Water tank 1 mile," 10 feet north of tracks; point in circle of paint on column of basalt lava rock, marked "U. S. 2711 B. M.".....	2, 711. 16
Fernwood, 1 mile west of, 500 feet west of water tank, 420 feet east of logging spur, 20 feet east of road crossing, 20 feet north of tracks; spike in stump, marked "U. S. 2710 B. M.".....	2, 710. 20
Fernwood, 180 feet east of station, 40 feet north of tracks, 25 feet east of section tool-house, 20 feet south of logging spur; iron post stamped "2710 1911 41".....	2, 710. 047
Fernwood, 1 mile east of, opposite sign "Station 1 mile," 10 feet north of track; point in circle of paint on basalt rock, marked "U. S. 2713 B. M."..	2, 713. 46
Fernwood, 2 miles southeast of, 0.5 mile southeast of ranch with large red barn, 170 feet east of private-road crossing, 15 feet south of track, top of pine stump 2 feet high; copper nail marked "U. S. 2704 B. M.".....	2, 704. 52
Coxs Spur, 3.1 miles southeast of Fernwood, 0.3 mile northwest of Mr. Olson's place, 75 feet west of switch stand at intersection of logging spur with railroad, 50 feet south of track, 10 feet east of fence post painted "S. B. M. No. 42;" iron post stamped "2714 1911 42".....	2, 714. 157
Coxs Spur, 1.1 miles southeast of, 4.2 miles southeast of Fernwood, 0.2 mile west of old log cabin, 235 feet east of private-road crossing, 20 feet south of track; copper nail in top of culvert 2141, marked "U. S. 2729 B. M.".....	2, 729. 64
Jims Spur, 0.7 mile southeast of, 320 feet east of private-road crossing, 15 feet north of track; spike in base of telegraph pole, marked "U. S. 2755 B. M.".....	2, 755. 49
Crawford Mill Spur, 3.3 miles northwest of Clarkia, 600 feet southwest of saw-mill, 180 feet east of switch stand at intersection of mill spur with main track, 100 feet west of trestle E E 548 over Little Creek, 50 feet south of main line, 15 feet west of private-road crossing; iron post stamped "2765 1911 43".....	2, 765. 313
Clarkia, 2.3 miles northwest of, 0.6 mile southwest of bridge over St. Maries River, east end of trestle E E 552, on south side; top of bolt in circle of paint, marked "U. S. 2785 B. M.".....	2, 785. 59
Clarkia, 1 mile northwest of, 450 feet west of sign "Station 1 mile," 40 feet north of track, top of cedar stump 3 feet high; copper nail marked "U. S. 2807 B M".....	2, 807. 05
Clarkia, 275 feet southwest of sign "Clarkia," 50 feet south of tracks, 30 feet south of switch, 330 feet southeast of road crossing, in line of right of way fence, 45 feet west of culvert 2193; iron post stamped "2828 1911 44".....	2, 828. 182
<b>Asotin, Bovill, Fish Creek, Kamiah, Kendrick, Lapwai, Pot Mountain, Pullman, Summit Lake, The Crag Mountains, and Weippe quadrangles.</b>	

## IDAHO AND NEZ PERCE COUNTIES.

The elevations in the following list were determined by primary leveling based on a U. S. Geological Survey bench mark in the wall

of the First National Bank of Genesee, Idaho, and extended to Lolo Hot Springs, Mont., via Orofino, Kooskia, and Selwai River. The line from Fords Creek to Powell Station via Lolo Trail, has a closure error of +5.81 feet and is unadjusted.

The work was done in 1911 by L. F. Biggs, excepting the bench marks in Kendrick and Pullman quadrangles near Moscow, which were set in 1903 by E. M. Fry.

#### PULLMAN QUADRANGLE.

[Latitude  $46^{\circ} 30' - 47^{\circ}$ ; longitude  $117^{\circ} - 117^{\circ} 30'$ .]

##### At Moscow.

	Feet.
Moscow, 20 feet north of Northern Pacific Ry. station, 5 feet west of platform, near coal house, 15 feet west of track; iron post stamped "2564 S" ..	2, 564. 873

#### KENDRICK QUADRANGLE.

[Latitude  $46^{\circ} 30' - 47^{\circ}$ ; longitude  $116^{\circ} 30' - 117^{\circ}$ .]

##### From Genesee south along public highway to point 4 miles north of Central Ferry.

Genesee, northeast corner of Main and Third streets, in brick wall at front entrance to First National Bank; bronze tablet stamped "2676 S" .....	2, 676. 945
Genesee, 3.5 miles south of, at Engle schoolhouse, southwest corner of foundation; aluminum tablet stamped "2814 B 1911 1" .....	2, 814. 528
Central Ferry, 5.7 miles north of where telephone line turns west; spike in base of telephone pole scribed and painted "2605" .....	2, 605. 56
Central Ferry, 4 miles north of, 15 feet south of road, in bowlder; aluminum tablet stamped "1921 B 1911 2" .....	1, 920. 930

##### From Myrtle east along Northern Pacific Ry. to Ahsahka.

Myrtle, 1.5 miles east of, in top of milepost 5; copper nail stamped "856" ..	856. 25
Myrtle, 2.5 miles east of, in top of milepost 6; copper nail stamped "864" ..	864. 29
Myrtle, 3.5 miles east of, in top of milepost 7; copper nail stamped "871" ..	871. 22
Myrtle, 4.2 miles east of, 0.2 mile west of milepost 8, opposite whistle post, 30 feet north of track, midway between house and barn, in bowlder; aluminum tablet stamped "874 B 1911 10" .....	873. 871
Agatha, 3 miles west of, in top of milepost 9; copper nail stamped "888" ..	888. 09
Agatha, 2 miles west of, in top of milepost 10; copper nail stamped "890" ..	890. 34
Agatha, 1 mile west of, in top of milepost 11; copper nail stamped "896" ..	897. 23
Agatha, in top of milepost 12; copper nail stamped "905" .....	905. 51
Agatha, 250 feet east of milepost 12, north side of track, at curve, 3 feet above ground, in bed rock; aluminum tablet stamped "905 B 1911 11" ..	905. 377
Leonore, in top of milepost 13; copper nail stamped "914" .....	914. 21
Leonore, 1 mile east of, in top of milepost 14; railroad spike stamped "920" ..	920. 07
Leonore, 2 miles east of, in top of milepost 15; railroad spike stamped "924" ..	924. 41
Leonore, 3 miles east of, in top of milepost 16; railroad spike stamped "938" ..	938. 20
Leonore, 3.4 miles east of, 0.4 mile east of milepost 16, 15 feet south of track, 15 feet north of small pine tree, in bowlder outcrop; aluminum tablet stamped "935 B 1911 12" .....	934. 837
Leonore, 4 miles east of, in top of milepost 17; railroad spike stamped "943" ..	943. 13
Leonore, 5 miles east of, in top of milepost 18; spike stamped "948" .....	947. 88
Peck, 1.2 miles west of, in top of milepost 19; spike marked "952" .....	952. 03
Peck, 25 feet north of station, north edge of wagon road, in bowlder outcrop; aluminum tablet stamped "959 B 1911 13" .....	958. 978
Peck, 0.8 mile east of, in top of milepost 21; copper nail marked "964" ....	964. 28



	Feet.
Peck, 1.8 miles east of, in top of milepost 22; copper nail marked "978"...	978. 11
Peck, 2.8 miles east of, in top of milepost 23; copper nail marked "988"...	988. 35
Ahsahka, 2 miles west of, in top of milepost 24; copper nail marked "1001"...	991. 71
Ahsahka, 75 feet east of railroad bridge over North Fork of Clearwater River, north edge of right of way, at fence line, in boulder; aluminum tablet stamped "990 B 1911 14".....	989. 862

**From Genesee via county road to Moscow.**

Genesee, northeast corner of Main and Third streets, in brick wall at front entrance to First National Bank, 1 foot above sidewalk; bronze tablet stamped "2676 S".....	2, 676. 945
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**Along Thorn Creek road to Moscow.**

Bangs, 2 feet from southeast corner of schoolhouse, in brick foundation, 3 feet north of steps; bronze tablet stamped "2745 S".....	2, 746. 207
Snow's ranch, 1,000 feet southwest of house, 150 feet west of road at section corner, southeast corner of field, in rock ledge 3 feet above ground; bronze tablet stamped "2586 S".....	2, 587. 552

**LAPWAI QUADRANGLE.**

[Latitude 46°-46° 30'; longitude 116° 30'-117°.]

**From point 4 miles north of Central Ferry, south along public highway to point near Central Ferry, thence east along Northern Pacific Ry. to Myrtle.**

Central Ferry, 2.9 miles north of, southwest corner of bridge over Hataway Creek; top of bolt-head on brace, scribed and painted "1120".....	1, 120. 54
Central Ferry, 1.7 miles northeast of, on saddle of ridge; spike in base of fence post, scribed and painted "1110".....	1, 109. 67
Central Ferry, 1 mile east of, at mouth of canyon, 20 feet from fence corner at bend of road; spike in base of fence post, scribed and painted "802"...	802. 02
Central Ferry, 1,200 feet northeast of, 100 feet north of road junction, south side of road, north bank of river, in boulder; aluminum tablet stamped "784 B 1911 3".....	783. 766
Clearwater River, at Central Ferry; surface of water June 15, 1911.....	742. 8
Central Ferry, 0.5 mile south of, at railroad crossing; spike in base of fence post, scribed and painted "756".....	755. 80
Lewiston, 3 miles east of, at Gurney Station, 200 feet south of railroad, north edge of wagon road, opposite house; spike in base of telephone pole, scribed and painted "768".....	768. 41
Lewiston, 3.5 miles east of, in top of milepost 133; copper nail stamped "766".....	767. 95
Lewiston, 4.5 miles east of, in top of milepost 132; copper nail stamped "772".....	772. 24
Lewiston, 5.5 miles east of, in top of milepost 131; copper nail stamped "777".....	777. 59
Lewiston, 6 miles east of, midway between mileposts 131 and 130, 30 feet south of track, 60 feet north of wagon road, near cattle guard, in boulder marked by rock cairn; aluminum tablet stamped "776 B 1911 6".....	776. 198
Lewiston, 6.5 miles east of, in top of milepost 130; copper nail stamped "782".....	781. 80
Lewiston, 7.5 miles east of, in base of milepost 129; spike marked "788"...	788. 19
North Lapwai, 0.5 mile west of, in top of milepost 128; copper nail stamped "797".....	796. 84
North Lapwai, north edge of right of way, opposite station, on fence line, in boulder buried flush with ground; aluminum tablet stamped "800 B 1911 7".....	800. 160

	Feet.
North Lapwai, 0.5 mile east of, in top of milepost 127; copper nail stamped "807".....	806. 92
North Lapwai, 1.4 miles east of, north end of railroad bridge over Clearwater River, in top of string piece; copper nail stamped "814".....	813. 73
North Lapwai, 2.4 miles east of, in top of milepost 125; copper nail stamped "831".....	831. 53
Arrow Junction, 0.7 mile west of, in top of milepost 124; copper nail stamped "823".....	823. 66
Arrow Junction, 60 feet north of bridge over creek, midway between tracks, on small knob, in bowlder outcrop; aluminum tablet stamped "822 B 1911 8".....	822. 092
Arrow Junction, 1 mile east of, in top of milepost 1; copper nail stamped "834".....	834. 11
Arrow Junction, 2 miles east of, in top of milepost 2; copper nail stamped "843".....	842. 77
Arrow Junction, 3 miles east of, in base of milepost 3; spike stamped "847".....	846. 86
Myrtle, in front of station; top of rail.....	847. 1
Myrtle, 0.5 mile east of, 450 feet east of milepost 4, south edge of right of way, on fence line, at small cut, in bowlder, 6 inches above ground; aluminum tablet stamped "851 B 1911 9".....	851. 191

**ASOTIN QUADRANGLE.**

[Latitude 46°-46° 30'; longitude 117°-117° 30'.]

**From Clearwater ferry west via Northern Pacific Ry. to Lewiston (double spur line).**

Lewiston, 3 miles east of, 0.5 mile south of Central Ferry, at railroad crossing; spike in base of corner fence post, aluminum tag stamped "756".....	755. 80
Lewiston, 2 miles east of, south bank of Clearwater River, at Stockyards ferry; spike in base of cable support, marked "737".....	737. 02
Milepost 136; spike in base of, aluminum tag stamped "741".....	741. 32
Lewiston, at main entrance to courthouse, in concrete step on east side of porch; aluminum tablet stamped "741 B 1911 4".....	740. 984
Lewiston, Carnegie Public Library, in step at southeast entrance; aluminum tablet stamped "820 B 1911 5".....	820. 025

**KAMIAH QUADRANGLE.**

[Latitude 46°-46° 30'; longitude 116°-116° 30'.]

**From Ahsahka via Northern Pacific Ry. east and southeast to Kooskia.**

Ahsahka, 0.5 mile east of, in top of milepost 26; copper nail stamped "996".....	996. 54
Orofino, 2 miles west of, in top of milepost 27; copper nail stamped "1005".....	1, 005. 61
Orofino, 1 mile west of, in top of milepost 28; copper nail stamped "1020".....	1, 020. 12
Orofino, northwest corner of railroad bridge over Orofino Creek, in top of stringer; copper nail stamped "1021".....	1, 020. 93
Orofino, northeast corner of Main Street bridge over Orofino Creek, in top of concrete retaining wall; aluminum tablet stamped "1016 B 1911 15".....	1, 016. 089
Orofino, 0.5 mile east of, in top of milepost 30; copper nail stamped "1026".....	1, 026. 17
Orofino, 1.5 miles east of, in top of milepost 31; copper nail stamped "1039".....	1, 039. 32
Orofino, 2.5 miles east of, in base of milepost 32; spike stamped "1047".....	1, 047. 28
Ford Creek, 800 feet west of, 100 feet south of milepost 33, 15 feet from north bank of river, in bowlder outcrop; aluminum tablet stamped "1056 B 1911 16".....	1, 056. 208
Milepost 34; spike in base of, aluminum tag stamped "1068".....	1, 061. 38
Milepost 35; spike in base of, aluminum tag stamped "1075".....	1, 068. 65

	Feet.
Milepost 36; spike in base of, aluminum tag stamped "1081".....	1, 074. 57
Milepost 37; spike in base of, aluminum tag stamped "1084".....	1, 078. 175
Greer, east end of town, 150 feet west of ferry, at railroad crossing, north edge of wagon road, in bowlder; bronze tablet stamped "1089 B 1911 85".....	1, 083. 592
Greer, 0.2 mile east of, in base of whistle post; spike, aluminum tag stamped "1089".....	1, 083. 96
Milepost 39; spike in base of, aluminum tag stamped "1101".....	1, 094. 46
Milepost 40; spike in base of, aluminum tag stamped "1103".....	1, 097. 393
Milepost 41, 100 feet east of, 200 feet west of tunnel 2, north edge of right of way, in bedrock; bronze tablet stamped "1114 B 1911 84".....	1, 107. 848
Milepost 42; spike in base of, aluminum tag stamped "1118".....	1, 111. 62
Milepost 43; spike in base of, aluminum tag stamped "1128".....	1, 122. 27
Milepost 44; spike in base of, aluminum tag stamped "1133".....	1, 127. 21
Pardee, in front of station; top of rail.....	1, 132. 5
Milepost 45; spike in base of, aluminum tag stamped "1146".....	1, 139. 96
Tramway, 250 feet west of warehouse, north edge of right of way, in bowlder; aluminum tablet stamped "1160 B 1911 83".....	1, 153. 567
Milepost 47; spike in base of, aluminum tag stamped "1159".....	1, 153. 20
Milepost 48; spike in base of, aluminum tag stamped "1169".....	1, 162. 49
Milepost 49; spike in base of, aluminum tag stamped "1179".....	1, 172. 43
Milepost 50; spike in base of, aluminum tag stamped "1183".....	1, 177. 01
Clearwater River, on railroad bridge; top of rail.....	1, 186. 2
Milepost 51; spike in base of, aluminum tag stamped "1191".....	1, 185. 13
Kamiah, in front of station; top of rail.....	1, 188. 7
Kamiah, southeast corner of steel toll bridge over Clearwater River, in concrete abutment; bronze tablet stamped "1196 B 1911 82".....	1, 189. 615
Milepost 52; spike in base of, aluminum tag stamped "1196".....	1, 190. 30
Milepost 53; spike in base of, aluminum tag stamped "1204".....	1, 197. 74
Milepost 54; spike in base of, aluminum tag stamped "1215".....	1, 208. 53
Milepost 55; spike in base of, aluminum tag stamped "1223".....	1, 216. 57
Milepost 56; spike in base of, aluminum tag stamped "1231".....	1, 225. 42
Milepost 57; spike in base of, aluminum tag stamped "1241".....	1, 235. 12
Milepost 58; spike in base of, aluminum tag stamped "1241".....	1, 235. 25
Kooskia, 1 mile west of, 25 feet south of milepost 59, in base of telephone pole; spike, aluminum tag stamped "1251".....	1, 244. 98
Kooskia, in front of station; top of rail.....	1, 253. 1
Kooskia, northwest corner of bridge over south fork of Clearwater River, in stringer; copper nail, aluminum tag stamped "1260".....	1, 254. 47
Kooskia, in front wall of Gilbach Building, 4 feet above ground; bronze tablet stamped "1259 B 1911 81".....	1, 253. 488

**From mouth of Ford Creek east along public highway to district schoolhouse No. 15.**

(Part of unadjusted line from mouth of Ford Creek to Powell station which has a closing error of plus 6 feet.)

Mouth of Ford Creek, 0.4 mile northeast of, west side of road, spike in root of 36-inch yellow-pine tree; scribed and painted "1144".....	1, 144. 62
Mouth of Ford Creek, 1.2 miles northeast of, west edge of road; copper nail in root of yellow-pine tree; scribed and painted "1325".....	1, 325. 00
Mouth of Ford Creek, 2.1 miles northeast of, north edge of road; copper nail in root of 36-inch fir tree, scribed "1808".....	1, 807. 40
Mouth of Ford Creek, 2.8 miles east of, at Camp Springs, 75 feet south of road; copper nail in root of 30-inch fir tree, scribed "2007".....	2, 006. 83
Mouth of Ford Creek, 4 miles east of, on saddle of ridge, north side of road; copper nail in root of pine tree, scribed "2663".....	2, 663. 70

	Feet.
Mouth of Ford Creek, 4.4 miles east of, 1,000 feet east of Reuben Dennis ranch, 1,000 feet west of top of steep grade, 30 feet north of road, in bowlder; aluminum tablet stamped "2917 B 1911 17".....	2,917.189
Mouth of Ford Creek, 4.7 miles east of, 5 miles east of Reuben Dennis ranch, on summit of steep grade; copper nail in root of 72-inch pine tree, marked "3026".....	3,026.06
Mouth of Ford Creek, 6.2 miles east of, 3.4 miles west of Peckham Brothers' sawmill, on summit of hill, 300 feet south of house; nail in root of pine tree, scribed "3146".....	3,146.04
Peckham Brothers' sawmill, 3 miles northwest of, at road junction, 10 feet south of road; copper nail in root of 24-inch pine tree, scribed "2994"....	2,994.70
Peckham Brothers' sawmill, 2.3 miles west of, at T road; copper nail in root of 36-inch yellow-pine tree, marked "3092".....	3,092.47
Cottonwood schoolhouse, 1 mile east of, at crossroads; copper nail in root of pine tree, scribed "3034".....	3,034.36
Cottonwood schoolhouse, 1 mile east of, 1.3 miles west of Peckham Brothers' sawmill, at crossroads, 20 feet northeast of road crossing, in bowlder; aluminum tablet stamped "3033 B 1911 18".....	3,033.549
Peckham Brothers' sawmill, west side of road, 15 feet north of gate; copper nail in root of 30-inch pine tree, scribed "3043".....	3,042.99
Peckham Brothers' sawmill, 8 miles southeast of, 0.25 mile east of large red barn, north edge of road; copper nail in root of 72-inch pine tree, scribed "3090".....	3,090.76
Weippe, 3.7 miles west of, 1,000 feet west of district schoolhouse No. 15, at road crossing; copper nail in root of pine tree, scribed "3088".....	3,088.24
Weippe, 3.7 miles west of, 1,000 feet west of district schoolhouse No. 15, at road crossing, at fence corner, in bowlder buried flush with ground; aluminum tablet stamped "3087 B 1911 19".....	3,087.516

## WEIPPE QUADRANGLE.

[Latitude 46°-46° 30'; longitude 115° 30'-116°.]

**From district No. 15 schoolhouse east via county road and Lolo trail to Rocky Ridge.**

(Part of unadjusted line from mouth of Fords Creek to Powell station which has a closing error of plus 6 feet.)

Weippe, 2.4 miles west of, north side of road; copper nail in root of 24-inch tamarack tree, scribed "3168".....	3,167.82
Weippe, 1.5 miles west of, north side of road; copper nail in root of 30-inch fir tree, scribed "3142".....	3,142.01
Weippe, opposite Erb Brothers' store; copper nail in root of pine tree, scribed "3006".....	3,006.47
Weippe, 200 feet southeast of schoolhouse, 275 feet south of road junction, in bank of small drain, in bowlder; aluminum tablet stamped "3002 B 1911 20".....	3,001.762
Weippe, 1.2 miles east of, 50 feet east of small creek, north side of road; copper nail in root of 20-inch pine tree, scribed "3040".....	3,039.78
Weippe, 2.2 miles east of, south side of road; copper nail in root of 30-inch fir tree, scribed "3113".....	3,113.15
Weippe, 3 miles east of, south side of road, west end of meadow, copper nail in root of 24-inch fir tree, scribed "3055".....	3,055.31
Weippe, 3.9 miles east of, 3.6 miles west of Browns Creek; copper nail in root of 24-inch pine tree, scribed "3132".....	3,132.69

	Feet.
Weippe, 4.4 miles east of, 3.1 miles west of Browns Creek, south edge of road, in flat bowlder 12 feet long extending over road; aluminum tablet stamped "3327 B 1911 21".....	3, 326. 876
Browns Creek, 2.1 miles west of, south side of road; copper nail in root of 30-inch tamarack tree, scribed "3271".....	3, 270. 32
Browns Creek, 0.9 mile east of, east end of meadow, north edge of road; copper nail in root of 36-inch fir tree, scribed "3184".....	3, 183. 75
Browns Creek, 0.6 mile east of, 4.1 miles west of Musselshell, north edge of road, 200 feet north of small cabin, in bowlder outcrop; aluminum tablet stamped "3225 B 1911 22".....	3, 222. 428
Browns Creek, 0.3 mile east of, 200 feet southeast of gate to pasture; copper nail in root of 36-inch fir tree, scribed "3170".....	3, 170. 65
Browns Creek, 1 mile east of, 2.3 miles west of Musselshell, north edge of road; copper nail in root of 36-inch fir tree, scribed "3412".....	3, 412. 51
Musselshell, 1.3 miles west of, south edge of road; copper nail in root of 48-inch white pine tree, scribed "3376".....	3, 376. 00
Musselshell, 0.5 mile west of, junction of old road; copper nail in root of 30-inch fir tree, scribed "3205".....	3, 205. 48
Musselshell, 1,000 feet southwest of Parson's cabin, 150 feet east of gate to pasture; copper nail in root of 50-inch fir tree, scribed "3171".....	3, 171. 19
Musselshell, 1.5 miles east of, south edge of Lolo trail, in 12 inch by 10 inch by 4 foot bowlder; aluminum tablet stamped "3426 B 1911 23".....	3, 426. 468
Musselshell, 2.6 miles east of, south side of trail; copper nail in root of 36-inch fir tree, scribed "3646".....	3, 646. 45
Musselshell, 3.7 miles east of, junction of Pioneer mine and Lolo trails, in bowlder outcrop; chisel point marked "X U. S.".....	3, 699. 91
Musselshell, 3.7 miles east of, junction of Pioneer mine and Lolo trails; copper nail in root of 20-inch fir tree, scribed "3706".....	3, 706. 35
Musselshell, 4.4 miles east of, north edge of trail, east bank of canyon; copper nail in root of 72-inch tamarack tree, scribed "3706".....	3, 706. 14
Musselshell, 5.2 miles east of; copper nail in root of 36-inch fir tree, scribed "3522".....	3, 522. 38
Lolo Forks, 25 feet north of Lolo Creek at ford; copper nail in root of 22-inch cedar tree, scribed "3390".....	3, 390. 72
Lolo Forks, east edge of trail, 50 feet east of forks of creeks, in bowlder outcrop; aluminum tablet stamped "3391 B 1911 24".....	3, 391. 284
Lolo Forks, 1.2 miles east of, south edge of trail; copper nail in root of 30-inch tamarack tree, scribed "4040".....	4, 040. 50
Lolo Forks, 1.9 miles east of, north edge of trail; copper nail in root of 30-inch cedar tree, scribed "4191".....	4, 191. 63
Lolo Forks, 3 miles east of, 3 miles west of Camp Martin, at foot of steep grade, 10 feet north of trail, in root of 30-inch fir tree; copper nail scribed "4446".....	4, 446. 01
Camp Martin, 1.7 miles east of, on saddle of ridge, south side of trail, in granite bowlder; aluminum tablet stamped "4873 B 1911 25".....	4, 873. 281
Camp Martin, 1.4 miles west of, at camp ground; copper nail in root of 40-inch fir tree, scribed "4868".....	4, 868. 60
Camp Martin, 150 feet west of junction of Pierce City and Lolo trails; copper nail in root of 72-inch fir tree, scribed "5147".....	5, 146. 79
Camp Martin, 1 mile east of, on summit of ridge, east edge of trail; copper nail in root of 20-inch fir tree, scribed "6024".....	6, 024. 28
Camp Martin, 2 miles east of, at junction of trail to Soldier Meadow; copper nail in root of 30-inch pine tree, scribed "5903".....	5, 902. 86

Feet.

Camp Martin, 2 miles east of, 50 feet south of junction of trail to Soldier Meadow, in bowlder outcrop; aluminum tablet stamped "5903 B 1911 27" .....	5, 903. 573
Soldier Meadow, 0.8 mile east of, west side of trail; copper nail in root of 20-inch fir tree, scribed "5816" .....	5, 816. 48
Soldier Meadow, 1.7 miles east of, at forks of trail to small meadow; copper nail in root of 24-inch fir tree, scribed "5303" .....	5, 302. 84
Soldier Meadow, 2.5 miles east of, at junction of Pete King and Lolo trails; copper nail in root of 60-inch fir tree, scribed "5898" .....	5, 898. 25
Soldier Meadow, 3.3 miles east of, 1.5 miles west of Rocky Ridge triangulation station, at large burn; copper nail in root of 36-inch fir tree, scribed "6016" .....	6, 016. 52
Rocky Ridge triangulation station, 1.5 miles west of, at large burn, 50 feet south of trail, on granite bowlder; chisel point, painted "6022" .....	6, 022. 30
Rocky Ridge triangulation station, 0.5 mile east of, at camp ground; copper nail in root of 24-inch fir tree, scribed "6287" .....	6, 286. 89
Rocky Ridge triangulation station, in bowlder outcrop, center of station; bronze tablet stamped "6542 B 1911 28" .....	6, 542. 057

**From Ohara Bar west via trail and public road along Selwai River to Kooskia.**

Ohara Bar, 1.5 miles west of, south edge of trail; copper nail in root of 36-inch yellow-pine tree, aluminum tag stamped "1528" .....	1, 521. 27
Goddard Bar, 150 feet southeast of cabin at ferry, in root of cedar tree supporting cable; copper nail stamped "1520" .....	1, 513. 00
Goddard Bar, 0.8 mile west of, 150 feet west of milepost 14, in base 20-inch birch tree; copper nail, aluminum tag stamped "1508" .....	1, 502. 89
Goddard Bar, 1.4 miles west of, 0.5 mile east of ranch house, at sharp bend in river, 50 feet east of small creek, in flat bowlder; bronze tablet stamped "1521 B 1911 76" .....	1, 514. 223
Lowell, 0.2 mile east of, north edge of trail, in root of 36-inch fir tree; copper nail, aluminum tag stamped "1493" .....	1, 486. 15
Lowell, 1 mile east of, north edge of trail, 500 feet west of cabin, in root of 30-inch cedar tree; copper nail, aluminum tag stamped "1472" .....	1, 466. 59
Lowell, 0.5 mile east of, on bluff over Selwai River, 1,000 feet east of mouth of Selwai River, north edge of trail, in bowlder; bronze tablet stamped "1547 B 1911 77" .....	1, 541. 371
Lowell, 0.2 mile south of, 25 feet south of junction of Selwai and Fish Lake trails, in root of 20-inch fir tree; copper nail, aluminum tag stamped "1470" .....	1, 464. 08
Lowell, 0.7 mile south of, east edge of trail, in root of 20-inch cedar tree; copper nail, aluminum tag stamped "1478" .....	1, 472. 35
Lowell, 2 miles west of, south edge of trail, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1459" .....	1, 453. 40
Lowell, 3.1 miles west of, south edge of trail, in root of 48-inch fir trees; copper nail, aluminum tag stamped "1510" .....	1, 504. 17
Lowell, 4.4 miles west of, 500 feet west of milepost 5, north edge of trail, 150 feet west of old cabin, in bowlder outcrop; bronze tablet stamped "1431 B 1911 78" .....	1, 425. 367
Lowell, 5.6 miles west of, 150 feet west of milepost 4, in root of 30-inch fir tree; copper nail, aluminum tag stamped "1440" .....	1, 433. 62
Syringa, 250 feet south of lower ranch, north edge of trail, in root of 24-inch fir tree; copper nail, aluminum tag stamped "1419" .....	1, 412. 83
Syringa, 0.8 mile west of, south edge of trail, in root of 36-inch fir tree; copper nail, aluminum tag stamped "1431" .....	1, 425. 42

	Feet.
U. S. Forest Service Cabin One, midway between house and barn, 15 feet northwest of road, in granite bowlder; bronze tablet stamped "1397 B 1911 79" .....	1, 391. 141
Cabin One, 1 mile west of, at National Forest boundary line, in root of 24-inch pine tree; copper nail, aluminum tag stamped "1398" .....	1, 392. 39
O 7 ranch (Perrys), 50 feet north of road, 100 feet east of barn, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1365" .....	1, 358. 81
O 7 ranch, 1 mile west of, north edge of trail, in root of 30-inch pine tree; copper nail, aluminum tag stamped "1353" .....	1, 346. 78
O 7 ranch, 2.4 miles west of, south side of road; copper nail in root of 36-inch yellow-pine tree, scribed "1343" .....	1, 337. 26
O 7 ranch, 3.4 miles west of, north edge of road, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1331" .....	1, 317. 48
Turner ranch, 250 feet south of house, 15 feet south of fence corner, north edge of road, in flat bowlder; bronze tablet stamped "1321 B 1911 80" ..	1, 314. 851
Turner ranch, 1.1 miles west of, north edge of road, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1314" .....	1, 307. 840
Turner ranch, 2.8 miles west of, south edge of road; copper nail in root of 36-inch pine tree, scribed "1299" .....	1, 292. 95
Kooskia, 6.3 miles east of, north edge of road, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1312" .....	1, 305. 70
Kooskia, 5.2 miles east of, north edge of road; in root of 30-inch pine tree; copper nail, aluminum tag stamped "1292" .....	1, 285. 85
Kooskia, 1.2 miles east of, 250 feet east of ferry; in root of 36-inch pine tree; copper nail, aluminum tag stamped "1261" .....	1, 254. 91
Clearwater River, at Kooskia ferry; surface of water Oct. 19, 1911 .....	1, 242

#### THE CRAGS MOUNTAINS QUADRANGLE.

[Latitude 46°-46° 30'; longitude 115°-115° 30'.]

##### From Rocky Ridge east via Lolo trail to Indian Grave.

(Part of unadjusted line from mouth of Ford Creek to Powell station having a closing error of plus 6 feet.)

Rocky Ridge triangulation station, east monument, at base of signal; chisel point on bowlder, painted "6527" .....	6, 527. 38
Rocky Ridge triangulation station, 0.5 mile east of, south side of trail; copper bolt in root of 72-inch fir tree, scribed "6290" .....	6, 290. 70
Little Weitas, west side of meadow, north edge of trail; copper nail in root of 36-inch fir tree, marked "5434" .....	5, 433. 77
Little Weitas, 1 mile east of, north side of trail; copper nail in root of 48-inch fir tree, scribed "5752" .....	5, 752. 07
Little Weitas, 2 miles east of, south edge of trail, 300 feet west of small creek; copper nail in root of 30-inch fir tree, scribed "5460" .....	5, 460. 64
Little Weitas, 2.6 miles east of, 0.6 mile east of small creek, north edge of trail, in granite bowlder; aluminum tablet stamped "5557 B 1911 29" ..	5, 556. 923
Little Weitas, 3.5 miles east of, 400 feet east of small creek; copper nail in root of 20-inch fir tree, scribed "5870" .....	5, 870. 48
Little Weitas, 4.4 miles east of, 1.8 miles west of Big Burn, south side of trail; chisel point on flat bowlder, painted "5562" .....	5, 562. 12
Little Weitas, 5.3 miles east of, 0.8 mile west of Big Burn; copper nail in root of 36-inch fir tree, scribed "5030" .....	5, 030. 47
Big Burn, 300 feet east of gate over trail; copper nail in root of 40-inch white-pine tree, scribed "5310" .....	5, 305. 84

Feet.

Big Burn, 0.7 mile east of, 10 miles west of Bald Mountain, on summit of ridge south side of trail; copper nail in root of 24-inch white-pine tree, scribed "5733" .....	5, 733. 36
Sherman Saddle, south edge of trail; copper nail in root of 20-inch fir tree, scribed "4762" .....	4, 762. 55
Sherman Saddle, 1 mile east of, 7.3 miles west of Bald Mountain, south edge of trail; copper nail in 36-inch fir tree in drain, scribed "5630" .....	5, 630. 95
Sherman Saddle, 1.5 miles east of, 7.1 miles west of Bald Mountain, south edge of trail, in granite boulder; aluminum tablet stamped "5769 B 1911 30" .....	5, 770. 082
Sherman Saddle, 1.6 miles east of, 6.7 miles west of Bald Mountain; chisel point on flat granite boulder extending over trail, painted "6078" .....	6, 078. 88
Sherman Saddle, 2.8 miles east of, 1 mile west of Noseem Meadow, at small creek, at base of 20-inch fir tree; chisel point on granite boulder, painted "6131" .....	6, 132. 30
Bald Mountains, 4.7 miles west of, 300 feet west of camp, Noseem Meadow, south edge of trail, in flat granite boulder; aluminum tablet stamped "5909 B 1911 31" .....	5, 910. 639
Bald Mountains, 3.4 miles west of, north edge of trail; copper nail in root of 20-inch fir tree, scribed "5992" .....	5, 993. 47
Bald Mountains, 2.1 miles west of, north edge of trail, in 24-inch fir tree, scribed "5934"; copper nail .....	5, 935. 13
Bald Mountains, 300 feet west of ranger's cabin, at camp ground; copper nail in root of 36-inch fir tree, scribed "6282" .....	6, 283. 39
Bald Mountain triangulation station, in granite boulder at center of station; bronze tablet stamped "6528 B 1911 32" .....	6, 529. 327
Bald Mountains, 1 mile east of, 200 feet south of saddle; chisel point on boulder outcrop, painted "5905" .....	5, 906. 16
Bald Mountains, 2.4 miles east of, on top of ridge, south edge of trail; copper nail in root of 24-inch pine tree, scribed "6251" .....	6, 252. 50
Bald Mountains, 3.8 miles east of, 3.1 miles west of Indian Grave, south edge of trail, on long sharp ridge, in granite boulder marked by rock cairn; aluminum tablet stamped "6519 B 1911 33" .....	6, 519. 823
Indian Grave, 1.5 miles west of, 75 feet south of large pile of granite boulders, north edge of trail; chisel point on granite boulder, painted "6555" ..	6, 556. 00
Bald Mountains, 6 miles east of, 0.8 mile west of Indian Grave, on summit of ridge, 100 feet north of trail, in granite boulder; aluminum tablet stamped "6576 B 1911 34," marked by rock cairn .....	6, 577. 297

## From Meeker Creek west via trail along Selwal River to O'Hara Bar.

Meeker Creek, 25 feet west of north edge of trail, in boulder; bronze tablet stamped "2026 B 1911 67" .....	2, 020. 551
Meeker Creek, 1.4 miles west of, south edge of trail, in root of 40-inch yellow-pine tree; copper nail, aluminum tag stamped "2002" .....	1, 995. 96
Warm Spring Creek, 1.1 miles west of, south edge of trail, in root of 72-inch fir tree; copper nail, aluminum tag stamped "2016" .....	2, 010. 31
Warm Spring Creek, 250 feet north of mouth, 100 feet south of cabin, in boulder; bronze tablet stamped "1944 B 1911 68" .....	1, 938. 017
Warm Spring Creek, 1 mile west of, 50 feet east of milepost 43, in root of 60-inch yellow-pine tree; copper nail, aluminum tag stamped "1957" ..	1, 950. 92
Warm Spring Creek, 2 miles west of, 150 feet west of milepost 42, south edge of trail, in root of 36-inch pine tree; copper nail, aluminum tag stamped "2185" .....	2, 179. 01



	Feet.
Warm Spring Creek, 3 miles west of, 25 feet east of milepost 41, in root of 50-inch fir tree; copper nail, aluminum tag stamped "2053" .....	2, 046. 83
Milepost 40, in root of pine tree; copper nail, aluminum tag stamped "2485" .....	2, 479. 56
Warm Spring Creek, 4.7 miles west of, 150 feet west of milepost 39, south edge of trail, in bowlder; bronze tablet stamped "2200 B 1911 69" .....	2, 193. 591
Ballinger Creek, 25 feet east of, in large bowlder; bronze tablet stamped "1924 B 1911 70" .....	1, 917. 651
Tepee Cabin, 2.4 miles east of, 50 feet east of creek, south edge of trail, in root of 24-inch fir tree; copper nail, aluminum tag stamped "1827" .....	1, 820. 13
Milepost 36, 50 feet east of, north edge of trail, in root of 50-inch fir tree; copper nail, aluminum tag stamped "1864" .....	1, 856. 98
Milepost 35, 50 feet east of, in root of 24-inch fir tree; copper nail, aluminum tag stamped "1868" .....	1, 861. 45
Tepee Cabin, 1 mile east of, 150 feet west of creek, in root of 36-inch pine tree; copper nail, aluminum tag stamped "1791" .....	1, 784. 25
Tepee Cabin, 50 feet northeast of, in granite bowlder; bronze tablet stamped "1811 B 1911 71" .....	1, 804. 160
Tepee Cabin, 1.2 miles west of, 100 feet north of milepost 32, 150 feet west of Creek 2, in root of 24-inch fir tree; copper nail, aluminum tag stamped "1798" .....	1, 791. 68
Milepost 31, 25 feet north of, in root of 24-inch fir tree; copper nail, aluminum tag stamped "1784" .....	1, 777. 06
Milepost 30, in root of 36-inch fir tree; copper nail, aluminum tag stamped "1764" .....	1, 757. 25
Falls ranger station, 50 feet south of cabin, 0.3 mile west of milepost 29, in bowlder; bronze tablet stamped "1725 B 1911 72" .....	1, 718. 168
Milepost 27, 120 feet west of, in root of 36-inch fir tree; copper nail, aluminum tag stamped "1696" .....	1, 689. 02
Milepost 26, in root of 50-inch fir tree; copper nail, aluminum tag stamped "1687" .....	1, 680. 50
Milepost 25, 100 feet west of, north edge of trail, in root of 48-inch cedar tree; copper nail, aluminum tag stamped "1666" .....	1, 678. 66
Milepost 24, 100 feet west of, south edge of trail, in root of 20-inch cedar tree; copper nail, aluminum tag stamped "1659" .....	1, 651. 63
Milepost 23, 200 feet west of, 25 feet south of trail, 25 feet east of bridge over small creek, in bowlder; bronze tablet stamped "1646 B 1911 73" .....	1, 639. 379
Milepost 22, 300 feet west of, south edge of trail, in root of 60-inch fir tree; copper nail, aluminum tag stamped "1622" .....	1, 615. 46
Milepost 21, 100 feet west of, south edge of trail, in root of 30-inch fir tree; copper nail, aluminum tag stamped "1626" .....	1, 619. 22
O'Hara Bar, 3.4 miles east of, 0.1 mile west of mile post 21, west bank of creek, 100 feet south of bridge, in bowlder; bronze tablet stamped "1626 B 1911 74" .....	1, 619. 201
Milepost 19, 200 feet west of, 100 feet west of creek, in root of 36-inch cedar tree; copper nail, aluminum tag stamped "1578" .....	1, 571. 29
O'Hara Bar ranger station, 150 feet east of cabin, south edge of trail, in root of 60-inch yellow-pine tree; copper nail, aluminum tag stamped "1554" .....	1, 547. 47
O'Hara Bar, 0.3 mile west of ranger station, south edge of trail, in bowlder; bronze tablet stamped "1556 B 1911 75" .....	1, 549. 433

**POT MOUNTAIN QUADRANGLE.**

[Latitude 46° 30'–47°; longitude 115°–115° 30'.]

**From Indian Grave east via Lolo trail to Indian post office.**

Feet.

(Part of unadjusted line from mouth of Ford Creek to Powell station which closed 6 feet high.)

Indian Grave, 50 feet east of creek, south edge of trail, in root of 24-inch fir tree; copper nail scribed "6268" .....	6, 269. 07
Indian Grave, 1.4 miles east of, south edge of trail; chiseled point on granite boulder, painted "5891" .....	5, 892. 18
Indian Grave, 1.7 miles east of, east bank of canyon, north edge of trail, in granite boulder marked by rock cairn; aluminum tablet stamped "5982 B 1911 35" .....	5, 983. 561
Indian Grave, 2.6 miles east of, south edge of trail, 15 feet east of small creek; copper nail in root of 30-inch fir tree, scribed "5682" .....	5, 683. 06
Indian Grave, 3.2 miles east of, 3 miles west of Howards Camp, in saddle, south edge of trail; copper nail in root of 48-inch fir tree, scribed "5399" ..	5, 400. 17
Howards Camp, 2.3 miles west of, south edge of trail; copper nail in root of 30-inch white-pine tree, scribed "5853" .....	5, 854. 29
Howards Camp, 1.5 miles west of, 20 feet north of trail, 150 feet north of large granite rocks locally known as Devils Chair, in granite boulder; aluminum tablet stamped "6424 B 1911 36" .....	6, 425. 254
Howards Camp, 0.7 mile west of, south edge of trail, on summit of ridge, in root of 24-inch white-pine tree; copper nail, tree scribed "6622" .....	6, 623. 31
Howards Camp, at junction of trails; copper nail in root of 36-inch fir tree, scribed "6178" .....	6, 179. 71
Howards Camp, 1 mile east of, south edge of trail; copper nail in root of 36-inch white-pine tree, scribed "6554" .....	6, 554. 76
Howards Camp, 1.7 miles east of, on saddle of ridge, north edge of trail, in granite boulder 4 inches above ground and marked by rock cairn; aluminum tablet stamped "6443 B 1911 37" .....	6, 444. 558
Howards Camp, 2.7 miles east of, south edge of trail, in saddle; copper nail in base of 30-inch fir tree, scribed "6098" .....	6, 099. 49
Howards Camp, 4.2 miles east of, south edge of trail; copper nail in root of 36-inch fir tree, scribed "6364" .....	6, 365. 72
Indian post office triangulation station, in boulder at base of signal; aluminum tablet stamped "7035 B 1911 37" .....	7, 036. 337

**FISH CREEK QUADRANGLE.**

[Latitude 46° 30'–47°; longitude 114° 30'–115°.]

**From Indian post office east along Lolo trail to Lost Lakes, thence south to Powell ranger station.**

(Part of unadjusted line from mouth of Ford Creek to Powell station which closed 6 feet high.)

Indian post office, triangulation station, 1.4 miles east of, at foot of small butte, south edge of trail; copper nail in root of 24-inch pine tree, scribed "6813" .....	6, 814. 29
Indian post office, 2.1 miles east of, south edge of trail; chisel point on granite boulder, painted "6701" .....	6, 701. 90
Indian post office, 3.2 miles east of, south edge of trail, in saddle; copper nail in root of 30-inch fir tree, scribed "6108" .....	6, 109. 14
Cayuse Creek, 4 miles west of, on point locally known as "Spring Mountain," 100 feet south of trail, in boulder; aluminum tablet stamped "6311" .....	6, 309. 955

	Feet.
Cayuse Creek, 3 miles west of, on shoulder of ridge, 30 feet south of trail; copper nail in double fir tree, scribed "6022" .....	6, 024. 02
Cayuse Creek, 2.4 miles west of, north edge of trail, on edge of sharp bluff; copper nail in root of 30-inch fir tree, scribed "6014" .....	6, 014. 75
Cayuse Creek, 1.2 miles west of, on summit of spur; copper nail in root of 60-inch double fir tree, scribed "5874" .....	5, 875. 55
Cayuse Creek, 0.5 mile west of, at junction of Black Lead-Lost Lakes and old Lolo trails, in bowlder; aluminum tablet stamped "5358 B 1911 39" ..	5, 359. 146

## LINE LEAVES LOLO TRAIL AND GOES VIA LOST LAKES.

Cayuse Creek, north bank of, 50 feet east of trail; copper nail in root of 60-inch fir tree, scribed "5063" .....	5, 064. 33
Lost Lakes, 3.3 miles west of, 25 feet north of junction of Black Lead and Lolo trails, in granite bowlder; aluminum tablet stamped "5169 B 1911 40" .....	5, 170. 747
Lost Lakes, 2.4 miles west of, south edge of trail, at forks of old Lolo trail leading east; copper nail in root of 30-inch fir tree, scribed "5400" .....	5, 401. 36
Lost Lakes, 1.3 miles west of, north edge of trail, 150 feet east of crossing at small creek; copper nail in root of 30-inch fir tree, scribed "5586" .....	5, 587. 03
Lost Lakes, west end of meadow, on summit of small knoll, in granite bowlder marked by cairn; aluminum tablet stamped "6137 B 1911 41" ..	6, 138. 034
Lost Lakes, 1 mile south of, east edge of trail; chiseled point on granite bowlder, painted "6231" .....	6, 231. 80
Lost Lakes, 1.5 miles south of, at summit of trail; copper nail in root of 20-inch fir tree, scribed "6978" .....	6, 978. 14
Lost Lakes, 1.8 miles south of, on highest point of ridge, 100 feet west of monument, at foot of large dead tree, in bowlder outcrop; aluminum tablet stamped "7016 B 1911 42" .....	7, 016. 171
Lost Lakes, 2.4 miles south of, 50 feet northeast of old Lolo trail and new trail to Lost Lakes, south edge of trail; copper nail in root of 36-inch fir tree, scribed "6787" .....	6, 787. 24

## LINE FOLLOWS LOLO TRAIL.

Lost Lakes, 3.3 miles east of, at east end of bare side of hill, south edge of trail; copper nail in root of 20-inch pine tree, scribed "6483" .....	6, 484. 54
Lost Lakes, 4 miles southeast of, 25 feet east of small creek, at camp ground; copper nail in root of 24-inch double fir tree, scribed "6053" .....	6, 054. 35
Lost Lakes, 5.2 miles southeast of, south edge of trail, where trail drops over ridge; copper nail in root of 20-inch pine tree, scribed "5874" .....	5, 875. 64
Lost Lakes, 6 miles southeast of, north edge of trail, copper nail in root of 30-inch pine tree, scribed "5676" .....	5, 677. 36
Powell Junction, 0.2 mile north of, east edge of trail, in bowlder outcrop; aluminum tablet stamped "5967 B 1911 43" .....	5, 968. 283
Powell Junction, at junction of Lolo and Powell station trails; copper nail in root of 36-inch pine tree, scribed "5878" .....	5, 879. 67

## LINE LEAVES LOLO TRAIL AND CONTINUES ALONG TRAIL TO POWELL JUNCTION, THENCE TO LOLO HOT SPRINGS.

Powell Junction, 0.5 mile south of, east edge of trail; copper nail in root of 30-inch fir tree, scribed "5543" .....	5, 545. 21
Powell ranger station, 3.6 miles northeast of, east edge of trail, at top of steep grade locally known as "Parachute Hill," in bowlder outcrop; aluminum tablet stamped "5370 B 1911 44" .....	5, 370. 891

Feet.

Powell ranger station, 2.9 miles northeast of, south edge of trail, at ruins of old cabin; copper nail in root of 48-inch fir tree, scribed "4665".....	4, 665. 94
Powell ranger station, 2.5 miles north of, east edge of trail; copper nail in root of 120-inch cedar tree, scribed "4478".....	4, 479. 34
Powell ranger station, 1.7 miles north of, south edge of trail; copper nail in root of 24-inch fir tree, scribed "4116".....	4, 118. 25
Powell ranger station, 0.8 mile north of, north end of small meadow; copper nail in root of 30-inch fir tree, scribed "3559".....	3, 560. 24

**From Powell station northeast along trail to Lolo Pass (Idaho-Montana boundary).**

Powell ranger station, 200 feet northeast of cabin, 25 feet south of trail, in bowlder; aluminum tablet stamped "3409 B 1911 45".....	3, 404. 799
Powell ranger station, 1.5 miles east of, north edge of trail, at ford of Locksaw River; copper nail in root of 36-inch fir tree, scribed "3456".....	3, 451. 18
Locksaw River, at ford; surface of water August 15, 1911.....	3, 446. 3
Powell ranger station, 2.2 miles east of, north edge of trail; copper nail in root of 24-inch white-pine tree, scribed "3607".....	3, 602. 28
Powell ranger station, 3.4 miles east of, south edge of trail; copper nail in root of 36-inch fir tree, scribed "3547".....	3, 542. 10
Powell ranger station, 3.7 miles northeast of, west edge of trail, 50 feet above water's edge, in granite bowlder; aluminum tablet stamped "3574 B 1911 46".....	3, 569. 204
Powell ranger station, 4.8 miles northeast of, south edge of trail; copper nail in root of 84-inch cedar tree, scribed "3637".....	3, 632. 50
Powell ranger station, 5.8 miles northeast of, north edge of trail; copper nail in root of 36-inch fir tree, scribed "3689".....	3, 684. 82
Powell ranger station, 7.1 miles northeast of, west side of trail; copper nail in root of 36-inch fir tree, scribed "3789".....	3, 784. 59
Powell ranger station, 7.8 miles northeast of, west edge of trail, 50 feet east of corduroy; copper nail in root of 36-inch fir tree, scribed "4071".....	4, 065. 97
Brushy Fork, east end of bridge, east edge of trail, in granite bowlder; aluminum tablet stamped "3919 B 1911 47".....	3, 913. 997
Brushy Fork, 1.2 miles north of, east edge of trail; copper nail in root of 40-inch fir tree, scribed "4312".....	4, 306. 20
Brushy Fork, 2.2 miles northeast of, south edge of trail; copper nail in root of 48-inch fir tree, scribed "4681".....	4, 675. 72
Brushy Fork, 2.8 miles northeast of, 4.2 miles southwest of Packers Meadow, north edge of trail, in granite bowlder; aluminum tablet stamped "4814 B 1911 48".....	4, 809. 632
Packers Meadow, 2.5 miles south of, north edge of trail; nail in root of stump, scribed "5119".....	5, 114. 57
Packers Meadow, west end of, at junction of Lolo trail and trail to Powell station; copper nail in root of 24-inch fir tree, scribed "5168".....	5, 163. 42
Packers Meadow, east end of, 0.5 mile south of Idaho-Montana State line, 150 feet east of trail, 150 feet west of corral, in large flat bowlder; aluminum tablet stamped "5203 B 1911 49".....	5, 198. 860

**SUMMIT LAKE QUADRANGLE.**

[Latitude 46°-46° 30'; longitude 114° 30'-115°.]

**From Powell station southwest along trail via Graves Peak, Elk Summit, and Three Forks to Meeker Creek.**

Powell ranger station, 200 feet northeast of cabin, 25 feet south of trail, in bowlder; aluminum tablet stamped "3409 B 1911 45".....	3, 404. 799
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	Feet.
Locksaw River, at Powell station ford; surface of water August 24, 1911...	3, 376. 2
Powell ranger station, 0.8 mile south of, east edge of trail; copper nail in root of 24-inch cedar tree, scribed "3649" .....	3, 642. 39
Powell ranger station, 1.6 miles south of, west edge of trail; copper nail in root of 48-inch fir tree, scribed "4576" .....	4, 570. 76
Powell ranger station, 3 miles south of, at edge of burn; copper nail in root of 24-inch fir tree, scribed "5631" .....	5, 625. 43
Powell ranger station, 3.7 miles south of, 0.6 mile north of Goat Roost, on summit of bench, at base of 20-inch pine tree; chisel point on rock, tree scribed "6317" .....	6, 311. 69
Goat Roost, east edge of trail, 100 feet north of triangulation monument, in flat boulder; bronze tablet stamped "6772 B 1911 53" .....	6, 766. 808
Goat Roost, 1 mile south of, east edge of trail, on summit of ridge at rocky point; copper nail in root of 24-inch pine tree, scribed "7040" .....	7, 034. 95
Goat Roost, 2 miles south of, west edge of trail, at meadow, south end of camp ground; copper nail in root of 30-inch fir tree, scribed "6673" ....	6, 667. 45
Walton Lake, on bluff overlooking lake, 75 feet west of edge, in saddle, west edge of trail, in boulder; aluminum tablet stamped "7090 B 1911 54" .....	7, 084. 859
Wind Lake, 0.8 mile northeast of, on edge of bluff where trail turns down to Wind Lake, in granite boulder; aluminum tablet stamped "7883 B 1911 55" .....	7, 877. 792
Wind Lake, at junction of Fish Lake and Elk Summit trails, in granite boulder; chisel point marked "7138" .....	7, 132. 46
Wind Lake, 0.8 mile south of, on Snail Pass, south edge of trail, in flat granite boulder marked by rock cairn; aluminum tablet stamped "7940 B 1911 56" .....	7, 934. 726
Snail Pass, 1 mile south of, east end of lake; copper nail in root of 36-inch tamarack tree, scribed "7000" .....	6, 994. 54
Snail Pass, 3 miles southeast of, at Kokooska Meadow, south edge of, near camp ground, in boulder; aluminum tablet stamped "6116 B 1911 57" ..	6, 110. 195
Kokooska Meadow, 1 mile south of, 4 miles northeast of Elk Summit ranger station, on ridge, in boulder; aluminum tablet stamped "6985 B 1911 58" ..	6, 979. 571
Elk Summit ranger station, 2.5 miles north of, on summit of Weihold Ridge, at base of small pine tree, in boulder buried flush with ground, marked "6974," tree blazed .....	6, 968. 22
Elk Summit ranger station, 0.5 mile north of, 30 feet east of trail, on rocky point; chiseled point on boulder, marked "6085," marked by rock cairn .....	6, 079. 21
Elk Summit ranger station, 100 feet west of cabin, in boulder; aluminum tablet stamped "5761 B 1911 59" .....	5, 755. 511
Hoodoo Lake; surface of water September 20, 1911 .....	5, 784. 3
Elk Summit ranger station, 1.5 miles south of, west edge of trail; chisel point on large boulder, marked "6267" .....	6, 260. 02
Elk Summit ranger station, 2.9 miles south of, opposite mouth of canyon, east edge of trail; chisel point on boulder, marked "5837" .....	5, 831. 81
Elk Summit ranger station, 4.3 miles south of, east edge of trail, 3.3 miles north of Cedar Creek, on 36-inch fir tree; aluminum tag stamped "5141" ..	5, 136. 19
Elk Summit ranger station, 5 miles south of, 50 feet east of trail, 50 feet south of blazed tree, on rock bluff over Cedar Creek, in boulder; bronze tablet stamped "4641 B 1911 59" .....	4, 636. 545
Mouth of Cedar Creek, 2 miles northeast of, north edge of trail, in root of 30-inch fir tree; copper nail, aluminum tag stamped "3741" .....	3, 735. 24

	Feet.
Cedar Creek, 0.6 mile north of, on shoulder of ridge, 15 feet north of trail, in boulder; bronze tablet stamped "3430 B 1911 60" .....	3, 427. 365
Cedar Creek, 150 feet south of ford, east edge of trail, on 40-inch fir tree; alu- minum tag stamped "3287" .....	3, 284. 85
Cedar Creek, 1.4 miles south of, east edge of trail, in root of 60-inch fir tree; copper nail, aluminum tag stamped "3194" .....	3, 191. 30
Elbo Bend, 1.8 miles north of, 150 feet west of cabin, at cedar flat, on 36- inch cedar tree; aluminum tag stamped "3128" .....	3, 121. 82
Elbo Bend, 0.5 mile west of, on small flat, at camp ground, in granite boulder; aluminum tablet stamped "3037 B 1911 61" .....	3, 034. 079
Elbo Bend, 2.7 miles west of, north edge of trail; chisel point on granite boulder, marked "2908" .....	2, 905. 06
Maple Creek, 50 feet north of trail, in west bank of creek, in granite boulder; aluminum tablet stamped "2751 B 1911 62" .....	2, 747. 908
Maple Creek, 1.7 miles southwest of, west edge of trail, in root of 40-inch cedar tree; copper nail, aluminum tag stamped "2609" .....	2, 606. 72
Isaac Creek, 0.6 mile southwest of; west edge of trail, in root of 40-inch fir tree; copper nail, aluminum tag stamped "2495" .....	2, 492. 43
Feiting Creek, east bank of, north edge of trail, in granite boulder; alum- inum tablet stamped "2489 B 1911 63" .....	2, 485. 864
Three Forks ranger station, 200 feet south of cabin, in boulder; aluminum tablet stamped "2390 B 1911 64" .....	2, 387. 598
Three Forks, 1.2 miles west of, south bank of creek, in root of 48-inch fir tree; copper nail, aluminum tag stamped "2312" .....	2, 309. 55
Three Forks, 2.5 miles west of, north edge of trail, in root of 36-inch fir tree; copper nail, aluminum tag stamped "2332" .....	2, 329. 20
Three Forks, 3.2 miles west of, east edge of trail, in root of 24-inch fir tree; copper nail, aluminum tag stamped "2374" .....	2, 371. 33
Three Forks, 4 miles west of, east edge of trail, 50 feet north of junction of trail up Selwai Creek, in root of 60-inch cedar tree; copper nail, aluminum tag stamped "2312" .....	2, 301. 71
Mouth of Moose Creek, west bank of creek; at ford, in large boulder; alum- inum tablet stamped "2198 B 1911 65" .....	2, 191. 598
Mouth of Moose Creek; surface of water September 29, 1911 .....	2, 176. 2
Mouth of Moose Creek, 1 mile west of, east edge of trail; chisel point on boulder, marked "2402" .....	2, 400. 02
Mouth of Moose Creek, 2.1 miles west of, south edge of trail, in root of 60- inch fir tree; copper nail, aluminum tag stamped "2198" .....	2, 195. 80
Mouth of Moose Creek, 2.8 miles west of, south edge of trail, 15 feet north of small creek, in large boulder; bronze tablet stamped "2084 B 1911 66" ..	2, 080. 979
o Mouth of Moose Creek, 3.5 miles west of, 25 feet west of small creek, at camp ground, on 48-inch cedar tree; aluminum tag stamped "2123" .....	2, 118. 25
Meeker Creek, 0.6 mile east of, south edge of trail; chisel point on boulder, marked "2098" .....	2, 092. 13

**Mink Creek quadrangle.****ONEIDA COUNTY.**

The elevations in the following list were determined by primary leveling and accord with the 1912 adjustment.

The leveling was done in 1913 by Howard Clark and in 1914 by F. L. Whaley. Some bench marks by the Utah Power & Light Co. are included with adjusted elevations.

## MINK CREEK QUADRANGLE.

[Latitude 42°-42° 30'; longitude 111° 30'-112°.]

From point 2.5 miles south of Franklin north along Oregon Short Line R. R. to Franklin, thence west along highway to Cornish, Utah.

	Feet.
Franklin, 1.1 miles south of, at Utah-Idaho State line, 10 feet north of boundary post, on northeast corner of stone culvert under railroad track; chisel mark painted "4502".....	4, 503. 12
Franklin, in middle of south end of small lawn, 20 feet north of railroad station; standard b. m. post stamped "4504".....	4, 504. 265
Franklin, opposite center of station; top of east rail.....	4, 502. 7
Franklin, 0.6 mile west of, in tie at north end of middle pier of bridge over Cub River; copper spike stamped "U. S. G. S. B. M.".....	4, 476. 98
Franklin, 1.8 miles west of, on northeast corner of concrete culvert under highway; chisel mark painted "4493".....	4, 494. 07
Franklin, 3.6 miles west of, at road crossing, on southwest corner of concrete platform at front of store; chisel mark painted "4515".....	4, 516. 26
Franklin, 4.7 miles west of, at road crossing, 50 feet north of east-west road and 20 feet east of north-south road; standard b. m. post stamped "4516".....	4, 516. 463
Franklin, 5.4 miles west of, where road makes square turn to north, on southwest corner of concrete wall of culvert under east-west highway; chisel mark painted "4525".....	4, 525. 78
Weston, 2.5 miles east of, on northwest corner of stone abutment of wooden bridge over Bear River; chisel mark painted "4445".....	4, 446. 10
Weston, 2.0 miles east of, on north side of highway, in west end of ground tie of trestle under flume crossing highway; copper spike stamped "U. S. G. S. B. M.".....	4, 480. 28
Weston, at east side of station, near southeast corner, on northeast corner of bottom concrete step; chisel mark painted "4606".....	4, 606. 85
Weston, 1.2 miles south of, 30 feet north of railroad crossing, in coping at northeast corner of wooden culvert under railroad; copper spike stamped "U. S. G. S. B. M.".....	4, 565. 52

From Niter southwest along highway to Preston, thence west to point near Dayton.

Niter, southwest corner of crossroads, in northeast corner of Mormon Church yard, in butt of tall flag pole; iron spike marked "5407.2".....	5, 407. 18
Niter, 1 mile south of, 100 feet south of T road east, top of lava ledge; chiseled square marked "5375.5".....	5, 375. 54
Niter, 2 miles south of, northeast angle of T road north, 30 feet north of corner, 2 feet west of east fence; iron post stamped "5304 1914".....	5, 304. 176
Niter, 3 miles south of, on top of south end of ridge, west side of road at Nangle, in base of corner fence post; copper nail marked "5272.6".....	5, 272. 57
Niter, 4.3 miles south of, 3.2 miles north of East Thatcher, northwest corner of crossroads, in butt of telephone pole with wooden brace; copper nail marked "5143".....	5, 142. 99
East Thatcher, 2.2 miles north of, 5.3 miles south of Niter, northeast angle of T road east, east side of road, 20 feet north of fence corner; iron post stamped "5082 1914".....	5, 081. 902
East Thatcher, 0.9 mile north of, in base of corner fence post where road turns east; copper nail marked "5039.8".....	5, 039. 71
East Thatcher, 180 feet east of Pond and Greaves's store, 10 feet west of southwest corner of wooden bridge over Trout Creek, top of black boulder; chiseled circle marked "4897.4".....	4, 897. 31

	Feet.
East Thatcher, 1.2 miles south of, 2.3 miles north of Perry, east side of road, in southwest corner of William Behle's yard; iron post stamped "4966 1914" .....	4, 965.440
Perry, 1.4 miles north of, 2.1 miles south of East Thatcher, west side of road, opposite T road east, in butt of cedar fence post; copper nail marked "4975" .....	4, 974.90
Perry, 0.25 mile north of, 300 feet north of Thos. B. Bennett's residence, near center of road, in base of telephone pole; copper nail marked "4923.3" .....	4, 923.25
Perry School House, 1 mile south of, 100 feet south of north plank bridge over Bridge Creek, at T road east, west side of road, on top of large yellow sandstone boulder; chiseled circle marked "4932.7" .....	4, 932.63
Cleveland, 0.75 mile east of, 2 miles south of Perry, 100 feet northeast of McGregor Steel Bridge, 50 feet southeast of road forks to Cleveland, east side of road; iron post stamped "4930 1914" .....	4, 929.555
Cleveland, 0.5 mile by air line southeast of, at north end of Bear River canyon, 30 feet west of road, near small hot spring, in top of rock ledge deposit; chiseled circle marked "4969.7" .....	4, 969.60
Hot Springs, 0.8 mile north of, at north end of open spot in canyon, 5 feet west of road, on top of large gray boulder; chiseled circle marked "4897.6" ..	4, 897.46
Hot Springs, 3 miles north of Utah Power & Light Co.'s camp No. 3, in southwest corner of yard of C. M. Hopkins's residence, 5 feet east of road; iron post stamped "4900 1914" .....	4, 900.039
Hot Springs, 1 mile south of, 2.8 miles north of Utah Power & Light Co.'s camp No. 3 (called Oneita), in north end of open spot in canyon, 5 feet west of road, on top of large red boulder; chiseled mark stamped "4902.3" ..	4, 902.25
Utah Power & Light Co.'s Dam at camp No. 3 (called Oneita), 1.8 miles north of, 2 miles south of Hot Springs, at entrance to thicket, 5 feet west of road, on top of red granite boulder; chiseled circle marked "4895.8" ..	4, 895.67
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 0.25 mile north of, south side of road where it makes sharp bend to east, on top of large granite boulder; chiseled circle marked "4913.2" .....	4, 913.09
Utah Power & Light Co.'s camp No. 3 (called Oneita), reservoir at; elevation of water surface October 26, 1914, 10.55 a. m. ....	4, 851.47
NOTE.—The dam here is not completed, hence the water will be much higher.	
Utah Power & Light Co.'s Dam No. 3 (called Oneita), in southeast corner of camp site, north side of high ridge on east side of Bear River, 30 feet east of road, 40 feet south of culvert at small drain from east; iron post stamped "4820 1914" .....	4, 820.055
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 1.25 miles south of, 20 feet east of road, top of boulder, on Utah Power & Light Co.'s bench mark, 1 foot north of 2 by 4 inch marker (marked "U. B. M. No. 93 4721.604"); chiseled mark "4724.7" .....	4, 724.54
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 2.5 miles south of about 800 feet east of three frame houses on west side of Bear River, 40 feet west of road, in butt of large fence post bearing "Private roadway" sign; copper nail marked "4702.6" .....	4, 702.42
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 3.5 miles south of, 20 feet southeast of southeast corner of wooden bridge across Bear River, in top of large white limestone rock; bronze tablet stamped "4681 1914" ..	4, 680.938
Bear River, at north side of wooden bridge; water surface October 27, 1914, 2.15 p. m. ....	4, 673.15



	Feet.
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 4.6 miles south of, 1 mile south of wooden bridge over Bear River, west side of canyon, west side of road, on blue rock ledge outcrop; chiseled circle marked "4656.2".....	4, 656. 00
Utah Power & Light Co.'s Dam No. 3 (called Oneita), 5.9 miles south of, 0.75 mile north of syphon bridge across Bear River, on west side of road, in top of north end of wooden culvert; copper nail marked "4641.2".....	4, 640. 98
Bear River, at wooden bridge 6.8 miles south of camp No. 3 (called Oneita); water surface October 28, 1914, 11.00 a. m.....	4, 603. 4
Preston, 9.8 miles north of, 4 miles north of Riverdale, 0.3 mile northwest of road fork to Paris, 350 feet east of wooden bridge over Bear River, north side of road at bend; iron post stamped "4611 1914".....	4, 610. 670
Preston, 8.8 miles north of, 3 miles north of Riverdale, 0.5 mile north of Utah Power & Light Co.'s Halfway House, east side of road, at small opening in brush, 30 feet north of telephone pole marker, on top of blue rock; chiseled circle marked "4597.9".....	4, 597. 69
Preston, 7.8 miles north of, 2 miles north of Riverdale, 0.5 mile south of Utah Power & Light Co.'s Halfway House, east side of road, north end of second bench above river, in butt of telephone pole; iron spike marked "4690.9".....	4, 690. 74
Preston, 6.9 miles north of, 1 mile north of Riverdale, 300 feet east of junction of T road east to Preston, north side of road; iron post stamped "4685 1914".....	4, 684. 864
Preston, 5.7 miles north of, 0.7 mile north of high divide, at dim road west through field, west side of road, at south end of old railway fill, in base of an old gate post; copper nail marked "4849.3".....	4, 849. 18
Preston, 4.9 miles north of, 350 feet south of top of divide, east side of road, in base of fence post; copper nail marked "5010.2".....	5, 010. 16
Preston, 3.6 miles northeast of, 250 feet south of Nels J. Nelson's residence, east side of road, 1 foot west of fence; iron post stamped "4812 1914"....	4, 811. 909
Preston, 2.7 miles northeast of, 150 feet west of T road north, north side of road, in butt of telephone pole; iron spike marked "4782.9".....	4, 782. 74
Preston, 1 mile north by 1 mile east of, southwest corner of crossroads, in butt of telephone pole; copper nail marked "4741.5".....	4, 741. 40
Preston, 1 mile north of, at crossroads, top of guard wall of west end of south concrete culvert; chiseled square marked "4727.1".....	4, 726. 96
Preston, at southwest corner of cross streets, in northeast corner of Preston Third Ward Church yard; iron post stamped "4714 1914".....	4, 713. 880
Preston, 1 mile west of, on road to Dayton, near east angle of T road north, in butt of telephone pole; railroad spike marked "4718".....	4, 717. 87
Preston, 2 miles west of, on southwest corner of truss seat resting on southwest pier of Preston Bridge (steel), on top of painted rivet head; chiseled cross marked "4462.3".....	4, 462. 05
Preston, 3 miles west of, west side of north-south road at T road east; iron post stamped "4503 1914".....	4, 503. 054
Preston, 4 miles west of, 2 miles west of Preston Street Bridge, at north turn in road on third bench above river, near field gate, in base of fence; copper nail marked "4651.5".....	4, 651. 34
Preston, 4.3 miles west of, 2.5 miles southeast of Dayton, at T road west, in north angle, in butt of telephone pole; copper nail marked "4708.9"....	4, 708. 70
Dayton, 1.5 miles south of, at road crossing, 50 feet east of Oregon Short Line R. R. tracks, north side of highway, in butt of telephone pole; railroad spike, marked "4747.5".....	4, 747. 38

NOTE.—Tied line here to line from U. S. Coast and Geodetic Survey bench mark.

From point 0.5 mile north of Weston Bridge over Bear River, west along highway to Weston, thence north along Oregon Short Line R. R. to Swan Lake.

Feet.

Weston Bridge, 0.5 mile north of, on iron bolt 3 posts from west bank of river, 1 foot north by 1 foot west of marker, fence runs east and west, second fence north of Weston Bridge, about 1,000 feet southeast of two small log cabins; Utah Power & Light Co.'s bench mark 68.....	4, 445. 98
Weston, 2 miles east of, on north side of highway, in west end of ground tie of trestle under flume crossing highway; copper nail, marked "U. S. G. S. B. M." (Old bench mark).....	4, 480. 28
Weston, 0.5 mile east of, northwest corner of crossroads, in butt of telephone pole; copper nail, marked "4563.6".....	4, 565. 90
Weston, 1 mile north of, 60 feet west of railroad tracks, 70 feet south of "Station One Mile" sign, in butt of telegraph pole; railroad spike driven horizontally, marked "4648.5".....	4, 650. 72
Weston, 2.3 miles north of, 50 feet west of railroad tracks, 280 feet south of private-road crossing, in butt of telegraph pole; railroad spike driven horizontally, marked "4689".....	4, 691. 28
Weston, 3 miles north of, 2.7 miles south of Dayton, 20 feet east of tracks, in top of white 0.25 mile board marked "68 A"; copper nail, marked "4718.1" and "4720.5".....	4, 720. 35
Dayton, 1 mile south of, west side of tracks, 300 feet north of "Station One Mile" sign, 1,800 feet south of road crossing, in butt of telegraph pole; railroad spike, marked "4750.6".....	4, 750. 44
Dayton, in east concrete foundation wall of railroad station, below telegraph window, 3 inches above ground; bronze tablet stamped "4748 1914"....	4, 747. 92
Dayton, in front of station; top of east rail of main track.....	4, 747. 13
Dayton, 1 mile north of, west side of tracks, in butt of second telegraph pole south of pole No. 72; railroad spike, marked "4747.1".....	4, 746. 99
Garner, 2 miles south of, 2 miles north of Dayton, west side of tracks, in butt of second telegraph pole south of pole No. 73; railroad spike, marked "4751.6".....	4, 751. 52
Garner, 1 mile south of, west side of railroad tracks, in butt of first telegraph pole south of pole No. 74; railroad spike, marked "4746.7".....	4, 746. 57
Garner, at east entrance to railroad station waiting room, in south end of lower concrete step; bronze tablet; stamped "4750 1914".....	4, 749. 831
Garner, 1 mile north of, 1,200 feet south of road crossing, west side of tracks, in butt of telegraph pole No. 76; railroad spike, marked "4746.5".....	4, 746. 47
Garner, 2 miles north of, 1 mile south of Coulam, west side of tracks, opposite "Station One Mile" sign, in butt of telegraph pole; railroad spike driven horizontally, marked "4752".....	4, 751. 97
Coulam, between two south steel granaries, at south end of elevator, in concrete foundation floor; bronze tablet stamped "4748 1914".....	4, 748. 104
Oxford, 2 miles south of, 1 mile north of Coulam, northeast corner of concrete culvert under railroad; chiseled square, marked "4745.3".....	4, 745. 31
Oxford, 1 mile south of, west side of tracks, in butt of first telegraph pole north of pole marked "80"; railroad spike driven horizontally, marked "4744.8".....	4, 744. 77
Oxford, in yard of abandoned creamery, 12 feet south of gate, 30 paces east of main tracks, in top of sandstone post; bottom of square hole, marked "U. S. □ B. M." (C. & G. S. b. m. E.).....	4, 747. 976
Oxford, 1.4 miles north of, at private-road crossing No. 82 A, east side of tracks, in top of mile board marked "82 B"; copper nail, marked "4770"....	4, 769. 90
Swan Lake, 1.25 miles south of, west side of tracks, 500 feet south of white post marked "S," in butt of square telephone pole; railroad spike driven horizontally, marked "4768.8".....	4, 768. 76

	Feet.
Swan Lake, north side of road at crossing, in northwest wing wall of concrete culvert; bronze tablet stamped "4780 1914" .....	4, 780. 156
Swan Lake, 1.3 miles north of, at private-road crossing No. 85 B, west side of tracks, in base of south gatepost; railroad spike driven horizontally, marked "4776.5" .....	4, 776. 48
Swan Lake, 2.6 miles north of, east side of tracks, in top of milepost marked "86 B"; copper nail, marked "4775.7" .....	4, 775. 71
Swan Lake, 3.7 miles north of, at milepost 88, 1 foot north of white fence on north side of road crossing the tracks, south of hill known as "Red Rock," in angle made by main right-of-way fence and roadway fence, 100 feet east of tracks, in top of sandstone post; bottom of square hole, marked "U. S. $\square$ B. M." (C. & G. S. b. m. F.) .....	4, 776. 821
NOTE.—This post had been covered by a 2-foot fill.	

**Utah Power & Light Co.'s bench marks. (Comprising only the part supported satisfactorily by levels of the U. S. Geological Survey.)**

Weston Bridge, 0.5 mile north of, fence runs east and west, 1,000 feet southeast of two small log cabins, on iron bolt, 3 posts from west bank of river, 1 foot north and 1 foot west of marker, second fence north of bridge. (B. M. 68) .....	4, 445. 98
West Cache Canal, 250 feet east of, on west side of river, 40 feet from west bank of slough, 300 feet northeast of old sheep shed, 400 feet northeast of old house foundation on prominent point of land, 1 foot north and 1 foot east of marker post on east-west fence; bench mark on iron bolt. (B. M. 69) .....	4, 447. 73
Bench mark about 1,000 feet from river (measured west along fence line), 1 foot east of marker post 300 feet northwest of river and on east-west fence, 300 feet east of corner where fence leaves east-west line to meander around slough; on iron bolt 6 inches south of eleventh post east of slough. (B. M. 70) .....	4, 449. 16
West Cache Canal, about 2,000 feet north of large through cut, 2,000 feet southeast of another cut, on west side of river, on iron bolt 1 foot west of marker, on section line 35 feet from river bank at angle of river, just below 180° bend. (B. M. 71) .....	4, 451. 20
Canal spillway line produced, 200 feet north of, 20 inches from marker, 15 inches from fence post, 30 inches from river bank, on iron bar 1 inch by 0.25 inch, 25 feet west of river (measured along fence), at second fence post on east-west 150-foot fence, starting at block willow tree. (B. M. 72) ..	4, 456. 36
T. 15 S., R. 39 E., northwest corner of sec. 28, on southwest corner of truss seat resting on southwest pier of Preston Bridge, "X," on head of rivet. (B. M. 73) .....	4, 461. 97
T. 15 S., R. 39 E., center of sec. 20, on west side of river, on rock set 1 foot southwest of corner of fence running 1,000 feet N. 80° E. of L. N. Nendenhall's house, 1 mile northwest of Preston Bridge, 200 feet south of river. (B. M. 74) .....	4, 462. 18
T. 15 S., R. 39 E., near east-west center line of sec. 17, 0.75 mile southeast of flume on West Cache Canal, 20 feet west of river and 1,000 feet south of junction of Deep Creek and Bear River, on iron pin southwest of lava outcrop 250 feet east of road. (B. M. 75) .....	4, 474. 04
Sharp's Warm Springs, 75 feet below, on west side of river, 10 feet south by 20 feet east of concrete wall, near center of sec. 8, T. 15 S., R. 39 E., on iron bolt. (B. M. 76) .....	4, 477. 88
Battle Creek Bridge, on east rivet head on northeast pier of, SW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 9, T. 15 S., R. 39 E. (B. M. 77) .....	4, 487. 28

Feet.

T. 15 S., R. 39 E., on east-west center line of sec. 4, set in ground at base of fence post about 100 feet from west bank of Bear River, on east-west fence heading down from mouth of canyon, about 1 mile north of Battle Creek Bridge; bolt. (B. M. 78).....	4, 493. 23
T. 15 S., R. 39 E., near center of N. $\frac{1}{2}$ sec. 3, 2 miles N. 45° E. of Battle Creek Bridge, in ground on west side of river, where bench and low flat join, 1 foot south of marker; bolt. (B. M. 79).....	4, 497. 93
Riverdale Ford, 200 feet north of; on west side of river, T. 14 S., R. 39 E., on east-west center line of E. $\frac{1}{2}$ SE. $\frac{1}{4}$ sec. 34, on east-west fence, 6 feet from bank, 600 feet east and 50 feet south of northwest from Winger's house. (B. M. 80).....	4, 506. 12
T. 14 S., R. 39 E., NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 35, set in ground on east side of river, 1 foot east of post, 1 foot south of marker, 20 feet from bank, on old north-south fence about 200 feet long, 1,500 feet N. 30° E. to old log cabin, 1,000 feet due east to old barn and house, 2,000 feet due south to Hobb's house; iron spike. (B. M. 81).....	4, 522. 27
T. 14 S., R. 39 E., NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 36, about 1,000 feet south of river, 1,000 feet northwest of Ben Meek's barn, on north-south fence, about 0.25 mile below Riverdale Bridge, on west side of river. (B. M. 82).....	4, 544. 59
T. 14 S., R. 40 E., NW. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 31, 0.25 mile north of Riverdale Bridge, 30 feet south of east bank, on prominent point of land below cut on canal; bolt. (B. M. 83).....	4, 576. 84
T. 14 S., R. 40 E., SE. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 29, on east side of river, about 1,000 feet due west of Half-Way House, on east-west woven-wire fence; bolt. (B. M. 84).....	4, 590. 15
T. 14 S., R. 40 E., NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 28, about 0.75 mile below new bridge over Bear River at mouth of canyon, 175 feet west and 25 feet south of southwest corner of D. P. Evan's house, set in ground on east side of river, on north-south fence line; 2-foot strap of steel. (B. M. 85).....	4, 602. 06
T. 14 S., R. 40 E., NW. $\frac{1}{4}$ SE. $\frac{1}{4}$ sec. 21, near Mink Creek, 37 feet west of center line of road and 175 feet north of company bridge below siphon, on west side of river, set in base of cottonwood stump in a clump of 3 cottonwood trees; 2 by 4 inch marker; log screw. (B. M. 86).....	4, 611. 94
T. 14 S., R. 40 E., NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 21, on southwest corner of west concrete pier of siphon bridge of Oneida Irrigation Canal Co.; bench mark No. 1, marked 4597.43. (B. M. 87).....	4, 629. 09
T. 14 S., R. 40 E., SW. $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, about 1 mile up canyon from siphon, about 100 feet north of rock point at mouth of canyon, on rock on west side of wagon road and river, 10 feet from center line of road. (B. M. 88).....	4, 641. 34
T. 14 S., R. 40 E., near north line of NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 16, on boulder 10 feet from wagon road on west side of river, about 600 feet south of second telephone booth down canyon and loading platform, east of large cave in rock cliffs. (B. M. 89).....	4, 653. 96
T. 14 S., R. 40 E., on west bank of Bear River, 10 feet from wagon road, 0.5 mile from bridge below camp No. 2, on large boulder; 2 by 4 inch marker. (B. M. 90).....	4, 673. 35
T. 14 S., R. 40 E., near east-west center line of E. $\frac{1}{2}$ E. $\frac{1}{2}$ sec. 3, on boulder 30 feet from river, at lower dam site on west side; 2 by 4 inch marker. (B. M. 91).....	4, 689. 10
T. 14 S., R. 40 E., NW. $\frac{1}{4}$ NW. $\frac{1}{4}$ sec. 2, on east side of river, 8 feet from river and 30 feet north of east end of bridge at camp No. 2, on poplar post in ground with poplar post marker. (B. M. 92).....	4, 696. 69

Feet.

T. 13 S., R. 40 E., near center of NW. $\frac{1}{4}$ sec. 35, on rock 150 feet from east bank of river, near edge of brush, 30 feet from wagon road, 1,000 feet south of ranch house and 1.25 miles south of camp No. 3; 2 by 4 inch marker. (B. M. 93).....	4,724.54
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Ammon, Hatch, Henry, Lanes Creek, Soda Springs, and Sterrett quadrangles.

## BANNOCK, BINGHAM, AND ONEIDA COUNTIES.

The elevations in the following list were determined by primary leveling and accord with the 1912 adjustment of precise leveling. Orthometric and rod corrections have been applied.

The leveling was done in Lanes Creek quadrangle in 1912 by F. A. Danforth; in Ammon and Henry quadrangles in 1912 by Danforth and in 1914 by F. L. Whaley; in Hatch, Soda Springs, and Sterrett quadrangles in 1914 by Whaley.

## HENRY QUADRANGLE.

[Latitude  $42^{\circ} 45' - 43''$ ; longitude  $111^{\circ} 30' - 111^{\circ} 45'$ .]

From Blackfoot bridge north along highway to point 0.4 mile north of Chubb Springs.

T. 7 S., R. 42 E., NE. $\frac{1}{4}$ sec. 16, 150 feet north of Blackfoot River bridge, 4 feet west of fence, east side of Henry road; iron post stamped "6131 1911 26".....	6,131.960
Blackfoot River bridge, 1 mile north of, 200 feet west of Henry road, south side of ridge, north side of large pile of lava rocks, at north side of small drain, on large boulder; circle, painted "6163.8".....	6,163.81
Bridge over Blackfoot River, on Soda Springs-Henry road, 2.1 miles north of, 5 feet east of said road, 50 feet south of road junction; iron post stamped "6205".....	6,206.029
Blackfoot River bridge, 3.1 miles north of, 100 feet west of road, 0.25 mile south of main divide, in small drain in flat, on top of large lava boulder; circle, painted "6333.6".....	6,333.65
Blackfoot River bridge, 3.9 miles north of, 30 feet east of Henry road; copper nail in telephone post, marked "U. S. 6284 B. M.".....	6,283.00
Blackfoot River bridge, 4.6 miles north of, on summit, 6 feet north of Henry road, 300 feet south of junction of said road with old Soda Springs-Henry road, now partly submerged by Blackfoot Reservoir; iron post stamped "6171".....	6,171.713
Henry, 1.3 miles south of, at top of divide, 30 feet north of road, on top of large lava boulder; circle, painted "6191.7".....	6,191.73
Blackfoot Reservoir; surface of water September 25, 1912.....	6,115.3
Blackfoot Reservoir; surface of water September 23, 1914, at 2.30 p. m. . .	6,107.9
Henry, bridge over Little Blackfoot River, 15 feet north of, 10 feet east of road, in limerock; bronze tablet stamped "6132".....	6,132.444
Henry, 1.2 miles north of, on summit, 50 feet west of Henry-Wayan stage road, 600 feet south of junction of said road with new road to Wayan; copper nail in telephone pole with wooden brace, marked "U. S. 6324 B. M.".....	6,324.18
Henry, 2 miles north of, 40 feet west of road, in lava rock outcrop, southeast corner of Pelican Slough meadow, on top of large lava boulder; circle, painted "6222.0".....	6,222.02

Feet.

Henry, 2.4 miles north of, 50 feet west of road; copper nail in telephone pole, marked "U. S. 6244 B. M." .....	6, 242. 45
Henry, 3.2 miles north of, at junction of stage road and private road to Joe Hanson's ranch, 4 feet west of road, 3 feet east of gate; iron post stamped "6215" .....	6, 215. 798
Pelican Slough; surface of water September 26, 1912.....	6, 209. 3
Henry, 4.4 miles north of, 50 feet west of road; chisel mark on boulder, marked "U. S. 6250 B. M." .....	6, 249. 89
Henry, 5.2 miles north of, 3 feet west of road; copper nail in corner fence post, marked "U. S. 6256 B. M." .....	6, 255. 86
Henry, 7.5 miles north of, 1,260 feet south of Chubb Springs, on summit, 8 feet west of road, 4 feet east of fence; iron post stamped "6334" .....	6, 333. 849
Chubb Springs, 0.4 mile north of, on summit, 30 feet west of road; copper nail in telephone pole, marked "U. S. 6368 B. M." .....	6, 367. 62

**From Chubb Springs west along highway to point 4.4 miles east of Blackfoot Reservoir Dam.**

Chubb Springs, 2.8 miles west of, 0.4 mile east of R. P. Hanson's house, at point where road crosses lane through two high gates, 6 feet east of road; copper nail in gate post of north gate, marked "U. S. 6268 B. M." .....	6, 267. 87
Chubb Springs, 3.9 miles west of, 0.4 mile west of R. P. Hanson's house, at point where road passes through gate, 2 feet north of road; copper nail in north gate post, marked "U. S. 6293 B. M." .....	6, 292. 88
Chubb Springs, 4.5 miles west of, 0.9 mile west of R. P. Hanson's house, at point where road crosses main road from Henry to Idaho Falls, 8 feet north of road, 15 feet west of Idaho Falls road; iron post stamped "6269" ..	6, 268. 670
Chubb Springs, 6 miles west of, 2.4 miles west of R. P. Hanson's house, 70 feet south of road; copper nail in 8-inch quaking-asp tree, marked "U. S. 6389 B. M." .....	6, 388. 92
Chubb Springs, 7.1 miles west of, 8.2 miles east of Blackfoot Reservoir dam, at summit in pass, 6 feet south of road; iron post stamped "6650" ..	6, 650. 433
Chubb Springs, 8 miles west of, 0.9 mile west of pass, 5 feet south of road; top of lava boulder, marked "U. S. 6549 B. M." .....	6, 548. 63
Chubb Springs, 9.3 miles west of, 2.2 miles west of pass, 30 feet north of road, 1 foot north of rock pile; top of lava boulder, marked "U. S. 6357 B. M." .....	6, 356. 65
Chubb Springs, 10.3 miles west of, 5 miles east of Blackfoot Reservoir dam, at point where road joins main road from Henry to dam, 8 feet north of road, 15 feet east of Henry road; iron post stamped "6245" .....	6, 245. 352
Chubb Springs, 11 miles west of, 4.4 miles east of Blackfoot Reservoir dam, 4 feet south of road; copper nail in gate post, marked "U. S. 6221 B. M." ..	6, 221. 08

**On line southwest of Blackfoot Reservoir dam.**

Blackfoot Reservoir dam, 4.2 miles southwest of, 300 feet west of wooden bridge over Corral Creek, on Fort Hall road, on west side of Corral Creek canyon, on lava-rock ledge; circle, painted "6059.5" .....	6, 059. 44
Blackfoot Reservoir dam, 4.2 miles southwest of, 250 feet west of wooden bridge across Corral Creek, on Fort Hall road, 100 feet south of road, on west side of Corral Creek canyon, on lava-rock ledge; bronze tablet, stamped "6057 1914" .....	6, 057. 253
Blackfoot Reservoir dam, 3.2 miles southwest of, 1 mile northeast of Corral Creek bridge, 100 feet west of road, in butt of telephone pole; copper nail, marked "6116.1" .....	6, 116. 02

Feet.

Blackfoot Reservoir dam, 2.2 miles southwest of, 2 miles northeast of Corral Creek bridge, 200 feet west of road on east bank of Blackfoot River, in butt of telephone pole; copper nail, marked "6152.4".....	6, 152. 36
Blackfoot Reservoir dam, 1.3 miles southwest of, 10 feet east of road, in butt of telephone pole; copper nail, marked "6161.4".....	6, 161. 38

**AMMON QUADRANGLE.**

[Latitude 43°-43° 30'; longitude 111° 30'-112°.]

**Near Blackfoot Reservoir dam.**

Chubb Springs, 12.1 miles west of, 3.2 miles east of Blackfoot Reservoir dam, 40 feet north of road; chiseled cross on limestone rock, marked "U. S. 6148 B. M.".....	6, 148. 18
Chubb Springs, 13 miles west of, 2.3 miles east of Blackfoot Reservoir dam, 500 feet west of road, 100 feet east of old stone cellar, 300 feet north of reservoir; top of granite boulder marked "U. S. 6147 B. M.".....	6, 147. 20
Blackfoot Reservoir; surface of water October 21, 1912.....	6, 114. 2
Chubb Springs, 13.7 miles west of, 1.6 miles north of Blackfoot Reservoir dam, 8 feet east of road; nail in base of corner fence post, marked "U. S. 6187 B. M.".....	6, 186. 71
Blackfoot Reservoir dam, at north end of dam, north end of small suspension bridge over spillway; in top of concrete support post, bronze tablet stamped "6129".....	6, 129. 255
Blackfoot Reservoir dam, 1.5 miles north of, 5 feet east of dim road, 0.25 mile west of Wilson Creek, on top of lava boulder; painted circle.....	6, 160. 72
Blackfoot Reservoir dam, 0.5 mile west of, at bridge over Blackfoot River; surface of water September 18, 1914.....	6, 081. 22

**From point 11.2 miles north of Chesterfield along highway northeast and southeast to point 7.7 miles west of Blackfoot Reservoir dam.**

Chesterfield, 11.2 miles north of, 30 feet east of road on ridge sloping toward Blackfoot River, 2 miles north of main divide, on large white rock; circle, painted "6356.8".....	6, 356. 83
Chesterfield, 12 miles north of, 3 miles south of road junction with Fort Hall road, at north end of ridge, 60 feet north of road, on top of yellow rock; circle, painted "6109.7".....	6, 109. 62
Chesterfield, 13.4 miles north of, in barnyard of Thomas Austin's ranch, 3 feet south of south post to entrance to corral, 1 foot south of fence; iron rod 0.5 inch by 2 feet driven in ground, marked "5961.1".....	5, 961. 04
Chesterfield, 14.6 miles north of, 12.5 miles west of Blackfoot Reservoir dam, 0.25 mile south of Fort Hall road at T road south, in butt of east gate pole; copper nail, marked "5923".....	5, 922. 84
Blackfoot Reservoir dam, 11.4 miles west of, 3 feet south of Fort Hall road; circle on point of black rock, painted "5926.1".....	5, 926. 04
Blackfoot Reservoir dam, 10.7 miles west of, 10 feet south of road; U. S. General Land Office iron post marking corner of secs. 26, 27, 34, and 35, T. 4 S., R. 39 E., stamped "5927 1914".....	5, 927. 108
Blackfoot Reservoir dam, 9.5 miles west of, 30 feet east of road, on north side of low ridge, in butt of telephone pole; copper nail marked "5972.8".....	5, 972. 68
Blackfoot Reservoir dam, 8.6 miles west of, 18 miles northeast of Chesterfield, 150 feet north of road, on west side of drain; top of U. S. General Land Office iron post of quarter corner between secs. 36 and 1, stamped "5983.5".....	5, 983. 438

Feet.

Blackfoot Reservoir dam, 7.7 miles west of, 1.5 miles west of Nigger Creek,  
100 feet north of road, on west side of drain, in butt of telephone pole;  
copper nail, marked "6005.5"..... 6, 005. 41

## LANES CREEK QUADRANGLE.

[Latitude 42° 45'–43°; longitude 111° 15'–111° 30'.]

From point 0.4 mile north of Chubb Springs east and southeast along road to Kunz  
Middle Dairy.

Chubb Springs, 1.3 miles north of, 8.4 miles northwest of Wayan, 0.3 mile  
west of F. M. Merrill's shearing plant, on summit, 15 feet north of road, in  
triangle at road junction; iron post stamped "6369"..... 6, 369. 270

Merrill's shearing plant, 0.8 mile south of, 5 feet east of road; copper nail  
in telephone pole, marked "U. S. 6373 B. M."..... 6, 373. 53

Wayan, 6.6 miles northwest of, 1.7 miles south of Merrill's shearing plant,  
3 feet east of road; copper nail in telephone pole, marked "U. S. 6399  
B. M."..... 6, 398. 72

Wayan, 5.1 miles west of, 3.2 miles south of Merrill's shearing plant, at bend  
in road, 2 feet west of corner fence post; iron post stamped "6396"..... 6, 395. 834

Wayan, 4.3 miles west of; surface of water in Grays Lake, October 2, 1912. 6, 386. 4

Wayan, 4.2 miles northwest of, 4.1 miles southeast of Merrill's shearing  
plant, 40 feet east of log cabin, 7 feet east of road; copper nail in fence  
post, marked "6395"..... 6, 394. 59

Wayan, 2.3 miles west of, 0.7 mile east of W. W. Call's ranch house, 500 feet  
west of new log house, at junction of main road with road from south,  
30 feet south of main road, 2 feet north of fence; iron post stamped "6391" 6, 391. 164

Wayan, 1.3 miles northwest of, 50 feet south of bend in road, 200 feet east  
of log cabin, 30 feet east of road; copper nail in telephone pole, marked  
"U. S. 6399 B. M."..... 6, 399. 35

Wayan, 0.3 mile north of, at bend in road, 35 feet east of road; copper nail  
in gate post, marked "6452 B. M. U. S."..... 6, 452. 33

Wayan, 0.4 mile south of, 0.8 mile north of Otto Peterson's ranch house, 600  
feet north of log cabin, 15 feet east of road, 2 feet west of fence; iron post  
stamped "6421"..... 6, 421. 470

Wayan, 1.7 miles south of, 0.5 mile south of Otto Peterson's ranch, 150 feet  
south of creek, 12 feet west of road, 6 feet east of fence; copper nail in  
8-inch quaking-aspen tree, marked "U. S. 6437 B. M."..... 6, 437. 11

Wayan, 2.8 miles southeast of, 4.5 miles west of William J. Kunz's Middle  
Dairy, at point where road turns off to Kunz Lower Dairy, 6 feet west of  
main road, 6 feet east of latter road, 15 feet from junction; iron post  
stamped "6711"..... 6, 711. 507

Wayan, 4.9 miles east of, 2.4 miles west of William J. Kunz's Middle Dairy,  
at Mott Store's ranch, 40 feet north of road, 75 feet south of new log house;  
copper nail in northwest corner of wooden shed, marked "6704"..... 6, 703. 98

Wayan, 5.9 miles east of, 1.4 miles west of William J. Kunz's Middle Dairy,  
15 feet north of road; copper nail in telephone post, marked "U. S. 6725  
B. M."..... 6, 725. 44

T. 5 S., R. 44 E., sec. 34, at Kunz's Middle Dairy, on Lanes Creek, 135 feet  
south of W. J. Kunz's house, 135 feet west of creek, 40 feet west of stable,  
40 feet east of road; iron post stamped "6665 1911 19"..... 6, 666. 364

NOTE.—The adjusted elevation equals bulletin 487 elevation plus  
0.780 which equals 6,666.364 feet.



## HATCH QUADRANGLE.

[Latitude 42° 45'-43°; longitude 111° 45'-112°.]

From point near Bancroft north along highway to point near Blackfoot River.

	Feet.
Bancroft, 3.25 miles north of, 200 feet north of T road west, on east side of road, on large lava boulder; chisled O, marked "5436.6".....	5, 436. 63
Bancroft, 3.5 miles north of, on west side of Bancroft-Chesterfield road, 200 feet south of C. M. Reed's residence, in rock-ledge outcrop; bronze tablet, stamped "5450".....	5, 450. 343
Bancroft, 4.3 miles north of, in southeast angle of crossroads, on rock ledge; chisled O, marked "5431.8".....	5, 431. 77
Bancroft, 5.4 miles north of, on west side of Bancroft-Chesterfield road, 820 feet north of T road west; chisled O, marked "5413.9".....	5, 413. 86
Bancroft, 6.3 miles north of, 2 miles west of Hatch, 30 feet east of road, in field at T road west, on top of lava-ledge outcrop; chisled O, marked "5385.7".....	5, 385. 63
Bancroft, 6.8 miles north of, 4 miles south of Chesterfield, northwest end of dam near J. F. Brown's homestead, 10 feet north of property fence line, in rock ledge; bronze tablet, stamped "5384".....	5, 383. 680
Chesterfield, 3 miles south of, 7.8 miles north of Bancroft, 1,190 feet north of crossroads, on west side of road, in butt of telephone pole; copper nail, marked "5354".....	5, 353. 90
Chesterfield, 2.3 miles southeast of, 8.25 miles north of Bancroft, at T road east, on west end of corrugated culvert; square, painted "5351.7".....	5, 351. 61
Chesterfield, 1.3 miles southeast of, 9.25 miles north of Bancroft, on west side of road, in field 20 feet west of fence, on west side of brace to telephone pole; copper nail driven vertically, marked "5390.7".....	5, 390. 62
Chesterfield, east part of town, in front brick wall of W. S. Higginson's residence, 1.5 feet above ground; bronze tablet, stamped "5454 1914".....	5, 453. 516
Chesterfield, 1 mile north of, at T road south, north side of east-west road, in root of tree; copper nail, marked "5579.6".....	5, 579. 55
Chesterfield, 2.3 miles northeast of, east side of road up Twentyfourmile Creek, 300 feet south of log cabin on top of small ridge, on lava rock; circle, painted "5697.3".....	5, 697. 20
Chesterfield, 3.5 miles northeast of, 0.25 mile north of dam on west fork of Twentyfourmile Creek, 100 feet east of road climbing south side of ridge above meadow, on white rock; circle, painted "6041.1".....	6, 041. 18
Chesterfield, 4.25 miles north of, 1.5 miles north of dam on west fork of Twentyfourmile Creek, 160 feet north of road near top of second ridge from dam; bronze tablet, stamped "6158 1914".....	6, 157. 946
Chesterfield, 6 miles north of, 1 mile south of first divide going north, 5 feet west of road, on top of white boulder; circle, painted "6207.6".....	6, 207. 64
Chesterfield, 7.3 miles north of, 1 mile south of first divide at head of west fork of Twentyfourmile Creek, 20 feet west of road, at northeast corner of quaking-ash grove, in root of old stump 6 inches in diameter; copper nail, marked "6360.6".....	6, 360. 69
Chesterfield, 8.8 miles north of, at head of Twentyfourmile Creek, 500 feet west of road, on south slope of ridge, on top of large white rock; circle, painted "6628.7".....	6, 628. 90
Chesterfield, 9 miles north of, on divide at head of Twentyfourmile Creek, 800 feet east of road, 50 feet south of small spring branch, north side of ridge, in top of white boulder 4 feet by 4 feet; bronze tablet, stamped "6601 1914".....	6, 601. 179

	Feet.
Chesterfield, 10.2 miles north of, 1 mile north of main divide, 5 feet west of road, in tree root; copper nail, marked "6536" .....	6, 536. 09
Pebble, 1.5 miles north of, north end wall of culvert 168 A under Oregon Short Line R. R., 150 feet east of site of original tablet bench mark; chiseled circle and cross (set by Oregon Short Line R. R., in place of destroyed aluminum-tablet bench mark of the U. S. Geological Survey stamped "5318 B. G. 1909") .....	5, 311. 981

## Near Blackfoot Reservoir dam.

Blackfoot Reservoir dam, 6.3 miles southwest of, 150 feet east of wooden bridge over Nigger Creek, in top of black-lava rock, rock monument 4 feet high is 2 feet east; bronze tablet stamped "6021 1914" .....	6, 020. 845
Blackfoot Reservoir dam, 5.5 miles west of, 1 mile east of Nigger Creek bridge, 40 feet north of road, southwest end of ridge, on point of brown rock; circle, painted "6090" .....	6, 090. 33

## SODA SPRINGS QUADRANGLE.

[Latitude 42° 30'–42° 45'; longitude 111° 30'–111° 45'.]

## From Alexander southwest along highway to Niter.

Alexander, 1 mile west of, south side of track, in butt of post marked "Alexander one mile"; copper nail, marked "5685.4" .....	5, 685. 46
Alexander, at main street crossing, south side of track, southwest corner of cement base of warning post; chiseled square, marked "5731.5" .....	5, 731. 58
Alexander, in front of station; top of south rail of main line .....	5, 732. 4
Alexander, 0.88 mile east of, southeast corner of semaphore 1513; top of base bolt, marked "5732" .....	5, 732. 02
Alexander, 1 mile south of depot, 200 feet west of road to Grace, in butt of telephone pole 114; railroad spike, marked "5723.8" .....	5, 723. 83
Alexander, 2 miles south of, 4 miles north of Grace, 0.25 mile south of T road south, west side of road; iron post stamped "5686 1914" .....	5, 686. 566
Grace, 2.75 miles north of, 30 feet west of road; 750 feet south of railroad crossing, 40 feet north of fence corner, on top of lava-ledge outcrop; chiseled square, marked "5619.7" .....	5, 619. 80
Grace, 1.7 miles north of, northeast wing wall of wooden bridge over irrigation ditch; chiseled square, marked "5586.5" .....	5, 586. 58
Grace, 0.75 mile north of, northwest concrete abutment of steel bridge over Bear River; cross in concrete, marked "5540.7." (This mark is also Utah Power & Light Co.'s bench mark 124) .....	5, 540. 79
Grace, eastern entrance to Grace Schoolhouse, in southwest corner of concrete floor; bronze tablet, stamped "5533 1914" .....	5, 532. 965
Grace, 1 mile south of, 400 feet south of crossroads, in butt of third telephone pole south of crossroads; spike driven horizontally, marked "5524.7" .....	5, 524. 77
Grace, 2 miles south of, 120 feet south of crossroads, on east side of road, in butt of telephone pole; copper nail, marked "5510.3" .....	5, 510. 39
Grace, 3 miles south of, at east end of "Threemile Knoll," in north angle of T road east, in butt of telephone pole at fence corner; spike driven horizontally, marked "5536.8" .....	5, 536. 88
Grace, 3.25 miles south of, 1.8 miles north of Niter, 0.25 mile south of "Threemile Knoll," southwest corner of T road west; iron post, stamped "5518 1914" .....	5, 518. 556
Niter, 1 mile north of, 750 feet south of crossroads, east side of road, in butt of telephone pole; railroad spike, marked "5427.5" .....	5, 427. 57

## STERRETT QUADRANGLE.

[Latitude 42° 30' -42° 45'; longitude 111° 45' -112°.]

## Near Bancroft.

	Feet.
Bancroft, in northeast corner of brick Mormon Church, 4 feet above ground; aluminum tablet, stamped "5417 1909 B I".....	5, 419. 103
Bancroft, 1 mile north of, east side of road to Hatch, top of lava-ledge outcrop; chiseled square, painted "5454.4".....	5, 454. 43
Bancroft, 2.25 miles north of, in northwest angle of crossroads, in butt of telephone pole; copper nail, marked "5470".....	5, 470. 06
Bancroft, 2.4 miles west of, 350 feet east of crossing north side of track, in top of white railroad post No. 164; nail.....	5, 407. 26
Bancroft, 1 mile west of, south side of track, east end of concrete culvert; painted square.....	5, 421. 44

Cataldo and Rathdrum 30' quadrangles and Cœur d'Alene special quadrangle.

## KOOTENAI AND SHOSHONE COUNTIES.

The elevations in the following list are based on primary leveling extended from bench marks in adjacent quadrangles.

The leveling in the Cataldo and Cœur d'Alene quadrangles was done in 1900 by F. E. Washburn, in 1901 by S. M. Hatch, and in 1905 by A. P. Anderson; that in the Rathdrum quadrangle was done in 1899 by M. P. Page.

## RATHDRUM QUADRANGLE.

[Latitude 47° 30' -48°; longitude 116° 30' -117°.]

## Near Spirit Lake and Fish Lake.

	Feet.
Sullivan's ranch, south end of, 4 feet south of road, in root of 40-inch yellow-pine tree; tack.....	2, 298. 7
Spirit Lake, 200 feet east of landing, 15 feet south of road; iron post stamped "2490 S".....	2, 490. 593
Spirit Lake; surface of water.....	2, 442. 6
Fish Lake, 1.5 miles north of, 4 feet west and south of forks of road, in top of boulder 20 by 12 inches, 6 inches above ground; cross mark.....	2, 429. 4
Fish Lake, 600 feet east of, northeast of forks of roads, in top of boulder 10 inches by 6 feet; cross mark.....	2, 391. 7
Fish Lake; surface of water.....	2, 313. 6
Fish Lake, 0.2 mile east of south end of, 80 feet south of fork of roads; iron post stamped "2366 S".....	2, 366. 308

From point near Hauser Junction along Northern Pacific Ry. to milepost marked "W. 204, H. 42."

Hauser Junction, 1.4 miles east of, 30 feet north of public road, 120 feet north of railroad, in south end of boulder 40 by 30 inches; bronze tablet stamped "2118 T".....	2, 119. 193
Rathdrum, in front of station; top of rail.....	2, 207. 0
Rathdrum, in brick building (Russell's store), eighth tier of bricks above sidewalk; bronze tablet stamped "2216 T".....	2, 216. 310
Milepost 190, 0.2 mile east of, 10 feet south of wagon road, 300 feet northeast of signboard "Sheridan," in notch of fir tree 18 inches in diameter; copper nail.....	2, 271. 85
Ramsey, 50 feet north of center of track, 3 feet east of telegraph pole, 20 feet east of wagon road; iron post stamped "2330 T".....	2, 330. 828

	Feet.
Milepost 196, 215 feet northeast of, 100 feet north of railroad, in pine tree; copper nail.....	2, 368. 80
North Pole spur, 0.5 mile east of, 40 feet north of railroad track, 3 feet east of telegraph pole; iron post stamped "2396 T".....	2, 396. 227
Milepost 201, 390 feet northeast of, 40 feet north of track, in north side of 24-inch fir stump; railroad spike.....	2, 376. 90
Athol, in front of railroad section house; center of track.....	2, 392. 1
Athol, 200 feet northeast of milepost 202, in notch of 24-inch fir tree; copper nail.....	2, 393. 40
Milepost 204, 13 feet west of, 20 feet west of center of track; iron post stamped "2350 T".....	2, 350. 544

**From Hauser Junction via Northern Pacific Ry. to Cœur d'Alene.**

Post Falls, 150 feet south of wooden mill, 200 feet east of bridge over Spokane River, 100 feet west of railroad spur, in large boulder 20 feet south of road; aluminum bolt stamped "2147 S".....	2, 147. 903
Post Falls, 6 miles east of, 500 feet south of track, 8 feet southwest of telegraph pole; iron post stamped "2148 S".....	2, 148. 196
Cœur d'Alene, corner of Sherman and Fourth streets, in southeast corner of Merriam building, 2 feet above sidewalk and 1 foot from door; aluminum tablet stamped "2157 S".....	2, 157. 909
Cœur d'Alene Lake, at Johnson's boat landing, in cottonwood tree, at surface of water May 20, 1899; spike.....	2, 131. 1
Cœur d'Alene Lake; surface of water May 23, 1899.....	2, 130. 5
Cœur d'Alene Lake; surface of water August 23, 1899.....	2, 122. 0
Post Falls, at dam; surface of Spokane River, August 23, 1899.....	2, 120. 1

**From Cœur d'Alene via King's ranch to Ramsey.**

Cœur d'Alene, 1 mile north of, 20 feet west of road, 200 feet southwest of house, in pine stump; spike.....	2, 234. 69
Cœur d'Alene, 2 miles north of, 30 feet east of road, 200 feet northeast of road forks, in pine tree; spike.....	2, 235. 36
Cœur d'Alene, 3.5 miles north of, 40 feet north of forks of road, in gate post; spike.....	2, 254. 27
Cœur d'Alene, 4.3 miles north of, 40 feet northeast of road crossing, 80 feet southwest of schoolhouse, near corner of secs. 13, 14, 23, and 24, T. 51 N., R. 4 W., in pine tree; spike.....	2, 280. 60
Cœur d'Alene, 6.2 miles north of, 30 feet south of crossroads, at corner of secs. 1, 2, 11, and 12, T. 51 N., R. 4 W., in top of pine stump; spike.....	2, 314. 13
Cœur d'Alene, 7.2 miles north of, in pine bearing tree to secs. 1, 2, 35, and 36, Tps. 51 and 52 N., R. 4 W.; spike.....	2, 329. 73
Cœur d'Alene, 8.2 miles north of, 30 feet west of road, at edge of timber, in pine tree; spike.....	2, 316. 31
Cœur d'Alene, 9.5 miles north of, 3 feet west of road, in root of 36-inch pine stump; spike.....	2, 285. 43

**From Cœur d'Alene to Fernan Lake.**

Fernan Lake, 15 feet north of, 200 feet east of Fernan's house, on stone 20 by 30 by 20 inches; cross.....	2, 133. 66
Fernan Lake; surface of water August 18, 1899.....	2, 129. 53

**From Rathdrum along telephone road to point on Cœur d'Alene branch of Northern Pacific Ry. 2.5 miles east of Post Falls.**

Rathdrum, 2.8 miles south of, corner common to secs. 12, 7, 13, and 18, T. 51 N., Rs. 4 and 5 W., on stone at foot of telephone pole; cross.....	2, 256. 07
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	Feet.
Rathdrum, 3.8 miles south of, 20 feet northwest of crossroads, 300 feet northeast of Thornton's barn, corner common to secs. 13, 18, 24, and 19, T. 51 N., Rs. 4 and 5 W.; iron post stamped "2241 S".....	2, 241. 833

**From Hauser Junction via county road to Hayden Lake.**

Hauser Junction, 4 miles east of, in post southeast of corner of secs. 22, 23, 26, and 27, T. 51 N., R. 5 W.; spike.....	2, 206. 45
Hauser Junction, 5 miles east of, on stone set for corner of secs. 23, 24, 25, and 26, T. 51 N., R. 5 W.; cross.....	2, 231. 93
T. 51 N., R. 4 W., corner of secs. 15, 16, 21, and 22, 30 feet southeast of; iron post stamped "2293 S".....	2, 293. 264
Hayden Lake, 40 feet west of, 200 feet east of gate to King's ranch, in pine tree; nail.....	2, 262. 00
Hayden Lake; surface of water August 29, 1899.....	2, 243. 2

**From corner of Tps. 51 and 52 N., Rs. 3 and 4 W., north along township line to Hayden Lake.**

Corner of Tps. 51 and 52 N., Rs. 3 and 4 W.; iron post-stamped "2424 S".	2, 424. 05
T. 52 N., R. 3 W., 30 feet east of quarter corner of S. $\frac{1}{4}$ sec. 33, in root of fir tree; spike.....	2, 465. 46
Hayden Lake, 100 feet west of, 3 feet east of trail, on stone; cross.....	2, 330. 0

**From corner of secs. 4, 5, 31, and 32, Tps. 51 and 52 N., R. 3 W., to Hudlow's ranch, on Hayden Lake.**

Rim Rock, 300 feet northwest of schoolhouse, 60 feet north of road, in tamarack stump; spike.....	2, 519. 19
Hudlow's ranch, 25 feet northeast of house, 600 feet north of Hayden Lake; iron post stamped "2267 S".....	2, 267. 846

**From Cœur d'Alene via French Gulch to Kelley's ranch.**

Cœur d'Alene, 2 miles northeast of, 30 feet north of road and 50 feet west of bridge, in root of tamarack stump; nail.....	2, 296. 39
French Gulch, summit of hill east of, 10 feet north of road, 50 feet southeast of house, in root of pine stump; nail.....	2, 521. 92

**From west end of Spirit Lake along trail to Brickel's cabin.**

	Feet.
Spirit Lake, 1 mile west of, 30 feet west of log cabin, 60 feet east of creek, 5 feet north of trail, in root of 24-inch fir tree; nail.....	2, 456. 07
Spirit Lake, 2 miles west of, 20 feet southeast of southeast corner of Brickel's cabin, 150 feet north of creek, in root of 10-inch fir tree; nail.....	2, 476. 07

**From schoolhouse at east end of Eightmile Prairie, 2 miles south of Ramsey, east along county road to Pend Oreille Lake.**

Schoolhouse at east end of Eightmile Prairie, 100 feet west of, 250 feet east of Northern Pacific Ry.; iron post stamped "2385 S".....	2, 385. 500
Schoolhouse at east end of Eightmile Prairie, 2 miles east of, 10 feet north of road at top of hill, in root of pine tree; nail.....	2, 432. 67
Schoolhouse at east end of Eightmile Prairie, 4.8 miles east of, 15 feet north of road, in root of pine tree; nail.....	2, 398. 79
Schoolhouse at east end of Eightmile Prairie, 4 miles east of, 250 feet northwest of sawmill, 140 feet northwest of house; iron post stamped "2465 S".	2, 465. 608
Pend Oreille Lake, 8 feet east of road, 9 feet south of corner of fence, in root of 10-inch cottonwood tree; nail.....	2, 071. 09
Pend Oreille Lake; surface of water September 22, 1897.....	2, 055. 5

**From Collin's ranch along road and Leiberg trail to Chilto Mountain.**

Feet.

Collin's ranch, 2.5 miles east of, 20 feet south of forks of roads, in root of 12-inch fir-tree; nail.....	2, 643. 23
Collin's ranch, 3.5 miles east of, 4 feet north of trail at its beginning, 100 feet south of creek; iron post stamped "2684 S".....	2, 684. 491
Leiberg Creek and Iron Gulch, top of divide between, 1 mile southwest of Chilco triangulation station; iron post stamped "4944 S".....	4, 944. 500

**From Ramsey via Seneaguoteen and Rathdrum road to Sheep Springs.**

Ramsey, 1 mile north of, 30 feet west of road, in root of pine tree; nail....	2, 353. 30
Ramsey, 2.8 miles north of, 10 feet west of road, 100 feet west of fork of roads; iron post stamped "2424 S".....	2, 424. 629
Ramsey, 4.3 miles north of, 30 feet west of fork of roads, 5 feet west of road, in root of pine tree; nail.....	2, 440. 22
Ramsey, 5 miles north of, 40 feet north of road, 60 feet northeast of fork of roads, in root of pine tree; nail.....	2, 437. 49
Ramsey, 5.8 miles north of, 25 feet northeast of crossroads; iron post stamped "2491 S".....	2, 491. 449
Ramsey, 7.5 miles north of, 30 feet west of road, in root of tree; nail.....	2, 521. 38
Sheep Springs, 200 yards southwest of, 15 feet north of road, in root of fir tree; nail.....	2, 486. 24

**From Cœur d'Alene via Wolf Lodge to Fourth of July Canyon.**

Cœur d'Alene, 2.8 miles southeast of, 60 feet southwest of fork of roads, on stone 30 by 20 by 12 inches; cross.....	2, 504. 445
Cœur d'Alene, 3 miles southeast of, 45 feet south of road, at summit of hill; iron post stamped "2691 S".....	2, 691. 893
Cœur d'Alene, 4.5 miles southeast of, 60 feet east of creek, 10 feet north of road, in fir tree; nail.....	2, 545. 83
Cœur d'Alene, 6.7 miles southeast of, 5 feet north of road, 50 feet east of fork of roads, in fir tree; nail.....	2, 162. 86
Wolf Lodge, 60 feet west of Johnson's house, in yard, 200 feet east of Wolf Lodge Creek ford; iron post stamped "2155 S".....	2, 155. 092
Wolf Lodge, 1.2 miles east of, 5 feet north of road, 300 feet north of drain, in root of fir tree; nail.....	2, 339. 00
Fourth of July Canyon and Cedar Creek, top of divide between, 40 feet north of road; iron post stamped "3136 S".....	3, 137. 062

**From Harrison along track of Oregon-Washington R. R. & Navigation Co. to Lane.**

Harrison, base of fence around residence of M. Ribstene, in sixth tier of stone wall; aluminum tablet stamped "2207 S".....	2, 206. 970
Lane, 600 feet southeast of post office and station, 40 feet north of house, in granite boulder 24 by 36 by 40 inches; aluminum bolt stamped "2153 S".....	2, 153. 438

**From Len Landing through Bellgrove to State line.**

Len Landing, 1 mile southwest of, 10 feet north of road, in root of fir tree; nail.....	2, 530. 36
Len Landing, 2.1 miles southwest of, 6 feet south of trail on summit of mountain, in root of pine tree; nail.....	3, 072. 37
Len Landing, 3.2 miles southwest of, 6 feet south by 100 feet west of cross-roads, in root of fir tree; nail.....	2, 502. 81

	Feet.
Bellgrove, 1 mile south of, 20 feet east of an old deserted cabin, 100 feet north of fork of roads; iron post stamped "2411 S".....	2, 411. 994
Bellgrove, 2 miles southwest of, 5 feet west of road, 20 feet south of fork of roads, in root of fir tree; nail.....	2, 464. 55
Three Pine Springs, 1.1 miles west of, 20 feet south of road, at summit of hill, in root of fir tree; nail.....	2, 753. 54

**From Bellgrove via Mica Bay to Post Falls.**

Bellgrove, 0.9 mile north of, 15 feet east of road at summit of divide, 600 feet north of B. F. Williams's house; iron post stamped "2585 S".....	2, 585. 372
Bellgrove, 2.1 miles north of, 24 feet north of creek, 500 feet southeast of barn, 20 feet east of fence, in root of fir tree; nail.....	2, 331. 21
Bellgrove, 2.8 miles north of, 60 feet west of creek, in root of white pine tree; nail.....	2, 290. 32
Bellgrove, 5.8 miles north of, 100 feet south of house, on rock 20 by 10 by 7 inches; cross.....	2, 149. 91
Mica Bay, 0.8 mile north of, 20 feet northwest of fork of roads, on stone 36 by 24 by 18 inches; cross.....	2, 471. 57
Mica Bay, 1.2 miles north of, 10 feet west of fork of roads on summit of hill, in root of pine tree; nail.....	2, 571. 32
T. 49 N., R. 4 W., 30 feet east of quarter corner between secs. 4 and 5; iron post stamped "2578 S".....	2, 578. 170
Cougar Creek, 2 miles northwest of, 12 feet south of road, on summit of divide between Spokane River and Cougar Creek, 800 feet north of cabin; iron post stamped "2810 S".....	2, 810. 936
Spokane River, 0.5 mile south of, 25 feet southeast of fork of roads, in root of pine tree; nail.....	2, 139. 44
Post Falls, 1.5 miles southeast of, 15 feet south of ferry over Spokane River, in root of pine tree; nail.....	2, 121. 59

**CATALDO 30' QUADRANGLE AND CŒUR D'ALENE SPECIAL QUADRANGLE.**

[Latitude 47° 30'-48°; longitude 116°-116° 30'.]

**From Cataldo along road to mouth of Fourth of July Canyon.**

	Feet.
Cataldo, 4 feet west of section house; iron post stamped "2143 S".....	2, 142. 886
Cataldo, 1 mile northwest of, in base of telephone pole 1034; spike.....	2, 135. 450
Cataldo, 3 miles northwest of, 175 feet northwest of schoolhouse, in root of pine stump; nail.....	2, 136. 87
Cataldo, 3.7 miles northwest of, north of road at forks, in root of fir tree; nail.....	2, 152. 09
Cataldo, 4.6 miles northwest of, 6 feet west of telephone pole 900, in root of stump; spike.....	2, 205. 57
Cataldo, 5.7 miles northwest of, south of road, 60 feet southwest of telephone pole 857, in root of fir stump; spike.....	2, 257. 54
Fourth of July Canyon, mouth of, 200 feet west of old barn, south of road opposite old cellar; iron post stamped "2160 S".....	2, 160. 446

**From Kingston along trail via Little North Fork to Cascade Creek, thence northeast via Leiber mine, Bear Creek, and Weber mine to Lake View.**

Little North Fork of Cœur d'Alene River, 150 feet north of mouth of, 30 feet west of, on top of large cliff; iron post.....	2, 204. 880
Little North Fork of Cœur d'Alene River, 100 feet northwest of mouth of, 6 feet above water; on narrow projecting rock; cross.....	2, 193. 450
Kingston, 1 mile northeast of, 90 feet northeast of Oregon-Washington R. R. & Navigation Co.'s bridge, in root of cottonwood tree branching in two; nail.....	2, 160. 90

	Feet.
Delta, Murray, and Little North Fork roads, 210 feet east of intersection of, 40 feet south of creek, at bend in road, in root of 12-inch pine tree; nail...	2, 532. 48
Delta, Murray, and Little North Fork roads, 0.45 mile from intersection of, 20 feet north of creek, in root of fir tree; spike marked "2436".....	2, 437. 06
Delta, Murray, and Little North Fork roads, 1.2 miles from intersection of, 20 feet south of road, in root of pine tree; nail.....	2, 260. 99
Delta, Murray, and Little North Fork roads, 1.98 miles north of intersection of, 1,700 feet northwest of Jacobson's house, 30 feet west of road, in root of large cedar stump; nail marked "2195".....	2, 195. 06
Ben Vener's house, 50 feet northwest of, in root of 24-inch fir tree; nail....	2, 199. 25
Ben Vener's house, 1 mile northwest of, edge of trail between North Fork of Cœur d'Alene and Little North Fork rivers, in root of 20-inch pine tree; nail marked "2462".....	2, 462. 44
North Fork and Little North Fork rivers, summit of trail between, 25 feet north of trail, in root of 26-inch fir tree; nail marked "2641".....	2, 641. 58
North Fork of Cœur d'Alene River, 1.25 miles from, 10 feet north of trail, 20 feet north of small rill, in root of 16-inch fir tree; nail marked "2515"...	2, 514. 82
Little North Fork River, 500 feet northwest of, at edge of trail, in root of fir tree; nail marked "2380".....	2, 382. 27
Canning's house, 880 feet north of, 150 feet northwest of Little North Fork River, 40 feet south of trail, in root of 36-inch cottonwood tree; nail marked "2205".....	2, 206. 10
Canning's house, 0.5 mile north of, 80 feet west of Little North Fork River, 30 feet east of trail, in root of 34-inch cedar tree; nail marked "2212".....	2, 212. 52
Glenwood, 40 feet west of log house, 300 feet northwest of Little North Fork River, in root of 12-inch fir tree; nail marked "2218".....	2, 218. 42
Bumble Bee, east of river, in top of rock 12 feet above water; aluminum tablet stamped "2239 S".....	2, 239. 444
Bumble Bee, 0.25 mile southwest of, 30 feet southeast of river, at edge of trail, in root of 36-inch cottonwood tree; nail marked "2241".....	2, 241. 25
Bumble Bee, 0.8 mile northwest of, 10 feet west of river, at edge of trail at ford, in root of 30-inch cottonwood tree; nail marked "2245".....	2, 245. 09
Bumble Bee, 1.5 miles northwest of, opposite high cliff at bend in river, on bank of river, in root of 24-inch cottonwood tree; nail marked "2250"...	2, 250. 43
Bumble Bee, 2.8 miles northwest of, 1,600 feet south of cabin, 30 feet southwest of river, in root of 36-inch cedar tree; nail marked "2273".....	2, 273. 39
Old Mission trail, intersection with Little North Fork of Cœur d'Alene River crossing, 20 feet south of river, in root of 36-inch fir tree; nail marked "2300".....	2, 300. 06
Old Mission trail, 0.1 mile from, intersection with Little North Fork of Cœur d'Alene River, 10 feet from north bank of river, in root of 30-inch pine tree; nail.....	2, 306. 29
Cox's logging camp, 70 feet east of, 50 feet west of Copper Creek, 30 feet west of Old Mission trail; iron post stamped "2335 S".....	2, 335. 780
Cox's logging camp, 0.25 mile north of, 200 feet from Copper Creek, 10 feet east of trail, in root of 16-inch white-pine tree; nail marked "2336".....	2, 336. 85
Cox's logging camp, 1 mile north of, 20 feet southeast of Little North Fork River, at edge of trail where it makes first steep climb above Cox's camp, in root of 30-inch hemlock tree; nail marked "2357".....	2, 357. 25
Little North Fork River, west side of stream, at base of cliff 300 feet high, 10 feet from three large cottonwood trees, in root of fir tree; nail marked "2388".....	2, 388. 35
Old Mission trail, 20 feet north of, south bank of river, in root of 48-inch cedar tree; nail marked "2401".....	2, 401. 88



	Feet.
Cox's lower logging camp, 3 miles northwest of, 50 feet south of river, 10 feet south of Old Mission trail; iron post stamped "2406 S".....	2, 406. 773
Little North Fork River, south bank of stream at bend, at base of cliff 75 feet high, on shelving rock, in root of 18-inch hemlock tree; nail marked "2444".....	2, 444. 97
Old Mission trail, 20 feet north of, 40 feet south of river, in root of 24-inch hemlock tree; nail marked "2467".....	2, 468. 70
Little North Fork River, near bend at base of cliff 100 feet high projecting over river, in root of 36-inch cottonwood tree; nail marked "2481".....	2, 481. 23
Little North Fork River, south bank of, clump of four trees, one partly cut by beavers, in root of cottonwood tree; nail marked "2502".....	2, 503. 20
Leiberg and Old Mission trails, 200 feet west of intersection of, west bank of river, on large rock; cross marked "2540".....	2, 540. 40
Leiberg and Old Mission trails, 40 feet north of intersection of, 6 feet east of trail, in root of 20-inch hemlock tree; nail marked "2541".....	2, 541. 78
Leiberg and Old Mission trails, 12 feet west of intersection of, 0.75 mile northwest of Handspike mine, 200 feet west of mouth of Leiberg Creek; iron post stamped "2541 S".....	2, 541. 860
S. W. Cope's cabin, 250 feet northeast of, 10 feet north of river, 70 feet below crossing of Old Mission trail, in root of 30-inch cottonwood tree; nail marked "2558".....	2, 559. 04
Prospector's cabin, 0.5 mile northwest of, south bank of river, at base of steep wooded slope, in root of 18-inch cedar tree; nail marked "2630"....	2, 631. 36
Old Mission trail, 100 feet south of, on south bank of river, 400 feet above large riffle, in root of 30-inch cottonwood tree; nail marked "2673".....	2, 672. 52
Old Mission trail, 170 feet south of, 50 feet east of large talus slope, south bank of river, in root of 24-inch cottonwood tree; nail marked "2692"....	2, 692. 56
Old Mission trail ford, 200 feet north of, north bank of river at bend, in root of 12-inch black-pine tree; nail marked "2717".....	2, 718. 04
Skookum Creek, mouth of, on bank, in root of dogwood tree; nail marked "2732".....	2, 732. 54
Old Mission and Cœur d'Alene trails, 10 feet east at intersection, 115 feet north of mouth of Deception Creek; iron post stamped "2740 S".....	2, 740. 627
Old Mission and Cœur d'Alene trails, 0.5 mile north of intersection, 200 feet northeast of ford of Old Mission trail, north bank of river, in root of 20-inch white-pine tree; nail marked "2754".....	2, 754. 79
Old Mission and Cœur d'Alene trails, 1.5 miles north of intersection of, 20 feet east of river, 6 feet west of Old Mission trail, in root of white-pine tree; nail marked "2792".....	2, 792. 89
Cascade Canyon, mouth of, 240 feet south of mouth of Cascade Creek, 30 feet east of river, edge of trail at ford, in root of large pine stump; nail marked "2834".....	2, 834. 62
Cascade Creek, 230 feet south of mouth, 80 feet east of river, 10 feet east of forks of trail; iron post stamped "2837 S".....	2, 837. 547
Cascade Canyon, 0.8 mile northeast of mouth of, 400 feet northeast of cabin, edge of trail, in root of 30-inch white-pine tree; nail marked "2912"....	2, 912. 58
Cascade Canyon, 1.2 miles northeast of mouth of, 20 feet south of trail, in root of 38-inch white-pine tree; nail marked "2980".....	2, 980. 76
Moore's cabin, 0.8 mile southwest of, between trail and creek, in root of 36-inch white-pine tree; nail marked "3155".....	3, 156. 26
Moore's cabin, 0.5 mile southwest of, 10 feet north of trail, 30 feet south of cabin, in root of 24-inch hemlock tree; nail marked "3293".....	3, 293. 82
Moore's cabin, 340 feet south of, 30 feet east of small creek, 6 feet north of trail, in root of 32-inch hemlock tree; nail marked "3346".....	3, 347. 10

	Feet.
Moore's cabin, 1,700 feet northeast of, 5 feet south of trail, in root of 24-inch hemlock tree; nail marked "3437".....	3, 438. 35
Moore's cabin, 0.6 mile northeast of, edge of trail, in root of hemlock tree; nail marked "3642".....	3, 643. 33
Moore's cabin, 1.5 miles northeast of, north edge of trail, in root of 12-inch fir tree; nail marked "3900".....	3, 900. 36
Moore's cabin, 1.8 miles northeast of, edge of trail, in root of 10-inch white-pine tree; nail marked "4144".....	4, 148. 50
Moore's cabin, 1.9 miles northeast of, edge of trail, in root of 20-inch white-pine tree; nail marked "4300".....	4, 301. 09
Moore's cabin, 2 miles northeast of, at forks of trail and beginning of second switchback, in root of 20-inch fir tree; nail marked "4473".....	4, 473. 79
Moore's cabin, 2.25 miles northeast of, 60 feet above last switchback, edge of trail, in root of 18-inch black-pine tree; nail marked "4661".....	4, 662. 00
Moore's cabin, 2.25 miles northeast of, 800 feet south of Leiberg mine, edge of trail, in root of 24-inch white-pine tree; nail marked "4665".....	4, 666. 59
Leiberg mine, 0.5 mile south of, edge of trail, in root of 10-inch black-pine tree; nail marked "4809".....	4, 809. 65
Leiberg mine, 0.8 mile south of, 300 feet west of summit of trail, 6 feet north of trail, in root of 10-inch black-pine tree; nail marked "5100"....	5, 100. 64
Leiberg mine, 0.8 mile south of, top of summit, in large rock, 20 feet south of trail; aluminum tablet stamped "5127 S".....	5, 127. 864
Leiberg mine, 0.9 mile southeast of, 6 feet south of trail, at base of rocky knoll, in root of white-pine tree; nail marked "5094".....	5, 094. 68
Summit of trail, 1,600 feet northeast of, 18 feet north of trail, on steep smooth slope, in root of black-pine tree; nail marked "4919".....	4, 920. 495
Leiberg mine, 1 mile southeast of, 0.5 mile east of summit of trail, 3 feet north of trail, in root of 12-inch black-pine tree; nail marked "4926"....	4, 926. 796
Leiberg mine, 1.25 miles southeast of, south edge of trail, in root of fir tree; nail marked "4822".....	4, 822. 846
Leiberg mine, 1.8 miles east of, in low sag on ridge, 3 feet south of trail, in root of 12-inch white-pine tree; nail marked "4457".....	4, 458. 21
Leiberg mine, 3 miles southeast of, top of last summit between Cascade and Trail creeks, on top of large white-quartz boulder 30 feet south of trail; cross marked "4581".....	4, 582. 56
Leiberg mine, 3.1 miles southeast of, 400 feet southeast of last summit on trail between Cascade and Trail creeks, in root of 10-inch hemlock tree; nail marked "4522".....	4, 523. 25
Leiberg mine, 3.25 miles southeast of, edge of trail, in root of 16-inch white-pine tree; nail marked "4439".....	4, 440. 20
Leiberg mine, 4 miles southeast of, 1 mile southeast of last summit on trail, edge of trail, in root of 10-inch white-pine tree; nail marked "4169"....	4, 170. 14
Leiberg mine, 4.5 miles southeast of, 0.5 mile west of Trail Creek, 3 feet south of trail, in root of 12-inch hemlock tree; nail marked "4001".....	4, 002. 13
Leiberg mine, 4.8 miles southeast of, 500 feet east of Teany's cabin, 1,200 feet west of Trail Creek, 3 feet south of trail, in root of white-pine tree; nail marked "3802".....	3, 803. 57
Webb's cabin, 0.25 mile south of, 800 feet west of Trail Creek, on sharp ridge sloping down to creek, 3 feet west of trail, in root of 24-inch red-fir tree; nail marked "3571".....	3, 572. 66
Webb's cabin, 120 feet southeast of, 100 feet west of Trail Creek, SW. $\frac{1}{4}$ sec. 29, T. 52, R. 1 E., 3 feet west of trail, in root of 12-inch white-pine tree; nail marked "3332".....	3, 333. 61

Feet.

Webb's cabin, 0.2 mile east of, 100 feet east of Trail Creek, 8 feet east of forks of trail; iron post stamped "3273 S".....	3, 274. 068
Trail Creek, 50 feet east of, 2,000 feet north of McDarman's cabin, in root of 10-inch white fir tree; nail marked "3213".....	3, 214. 27
Big Meadows, 6 miles southwest of, 20 feet east of Trail Creek, 3 feet south of trail, at lower end of large open meadow, in root of 30-inch spruce tree; nail marked "3195".....	3, 195. 95
Big Meadows, 5 miles southwest of, 110 feet southeast of Trail Creek, 2 feet east of trail, in root of 16-inch white-fir tree; nail marked "3147".....	3, 147. 77
Big Meadows, 4.8 miles southwest of, 12 feet west of Trail Creek, 4 feet east of trail, in root of 36-inch spruce tree; nail marked "3137".....	3, 138. 61
Heiner's cabin, 30 feet south of, 2.5 miles southwest of Big Meadows, 20 feet north of Trail Creek, in root of 30-inch spruce tree; nail marked "3082".....	3, 083. 28
Big Meadows, 1.8 miles southwest of, 3 feet south of trail, in root of 16-inch hemlock tree; nail marked "3054".....	3, 055. 42
Big Meadows, 1.25 miles southwest of, 3 feet north of trail, 70 feet north of Trail Creek, in root of 24-inch spruce tree; nail marked "3025".....	3, 026. 79
Big Meadows, 0.8 mile southwest of, 100 feet southeast of fork of Lake View and Cœur d'Alene trails, 3 feet north of trail, 300 feet northwest of mouth of Bear Creek, in root of 10-inch balsam-fir tree; nail marked "3021".....	3, 022. 00

**From mouth of Cascade Canyon to point 2.5 miles northwest of Wright's ranch (spur line).**

Wright's ranch, 400 feet west of, 10 feet north of river, in root of 24-inch white-pine tree; nail marked "2856".....	2, 855. 94
Burnt Cabin Creek, 55 feet northeast of mouth, 0.8 mile west of Wright's ranch, on large protruding rock 3 feet above water; cross marked "2874".....	2, 874. 99
Wright's ranch, 1.25 miles northwest of, 1,600 feet northwest of mouth of Burnt Cabin Creek, 10 feet south of river, in root of white-fir tree; nail marked "2882".....	2, 883. 55
Wright's ranch, 2 miles northwest of, 12 feet east of river, 15 feet west of trail, in root of 36-inch spruce tree; nail marked "2902".....	2, 903. 05
Wright's ranch, 2.5 miles northwest of, 200 feet west of trail, below dense willow swamp, south bank of river at sharp bend, in root of 20-inch spruce tree; nail marked "2916".....	2, 916. 99

**From mouth of Bear Creek along trail via Magees to mouth of East Fork of Cœur d'Alene River, thence down river to mouth of Little North Fork.**

Big Meadows, 0.2 mile west of, 300 feet west of mouth of Teepee Creek, on steep hillside, 25 feet south of trail, in root of 18-inch red-fir tree; nail marked "3138".....	3, 139. 06
Magee's ranch, 0.25 mile west of, 260 feet north of mouth of Teepee Creek, 3 feet south of trail, in root of 22-inch spruce tree; nail marked "2997".....	2, 998. 19
C. Magee's cabin, 120 feet south of, 300 feet north of Trail Creek, 60 feet north of trail, on gravel knoll, in open meadow; iron post stamped "2984 S".....	2, 985. 289
C. Magee's cabin, 1 mile northeast of, 50 feet northwest of Trail Creek, 6 feet southeast of trail, in root of 8-inch white-fir tree; nail marked "2957".....	2, 958. 61
C. Magee's ranch, 2 miles northeast of, 70 feet south of trail, bank of Trail Creek, on projecting rock 3 feet above water; cross marked "2926".....	2, 926. 96
Scott's cabin, 150 feet northeast of, 50 feet west of Trail Creek, 20 feet west of trail, in small meadow, in root of balsam-fir tree in clump of three; nail marked "2919".....	2, 920. 12

	Feet.
T. S. Vickere's cabin, 220 feet northwest of, 20 feet southwest of Trail Creek, 8 feet east of trail, in root of spruce tree forking in two; nail marked "2903" .....	2, 904. 70
Independence Creek, 200 feet north of mouth, 35 feet east of creek, 7 feet north of trail, 5 feet south of 36-inch cottonwood tree, on small gravel knoll; iron post stamped "2894" .....	2, 895. 168
Independence Creek, 1 mile northeast of mouth, 30 feet southwest of river, 15 feet southeast of an old cabin, in root of 20-inch white-pine tree; nail marked "2874" .....	2, 874. 93
Independence Creek, 2.25 miles northeast of mouth, 30 feet north of river, in root of 35-inch white-pine tree; nail marked "2847" .....	2, 848. 41
East Fork of Cœur d'Alene River, 1 mile northwest of mouth, 0.5 mile southeast of Peterson's cabin, north bank of river, in root of 12-inch cottonwood tree; nail marked "2813" .....	2, 813. 68
East Fork of Cœur d'Alene River, 240 feet southeast of mouth, 30 feet south of north fork of river, 40 feet west of Miss Otterson's cabin; iron post stamped "2796 S" .....	2, 797. 072
East Fork of Cœur d'Alene River, 1.25 miles southeast of mouth of, on north bank of river, opposite limestone cliff, in root of 18-inch cottonwood tree; nail marked "2768" .....	2, 769. 56
East Fork of Cœur d'Alene River, 2.25 miles southeast of mouth of, on east bank of river, on large square rock sloping into river and 3 feet above surface of water; cross marked "2748" .....	2, 749. 32
East Fork of Cœur d'Alene River, 3.25 miles southeast of mouth, on east bank of river, opposite large riffle, in root of 18-inch cottonwood tree; nail marked "2731" .....	2, 731. 70
East Fork of Cœur d'Alene River, 4.25 miles southeast of mouth, 30 feet south of river, 90 feet northeast of cabin, in root of 10-inch willow tree; nail marked "2714" .....	2, 715. 14
East Fork of Cœur d'Alene River, 5 miles southeast of mouth, on south bank of river, 4 feet above water, on shelving rock protruding from a high cliff, 600 feet west of L. Sherman's cabin; cross marked "2701" .....	2, 702. 32
Big Henk's meadow, 0.5 mile southeast of, at sharp bend in river, 6 feet above water, on large projecting rock; cross marked "2674" .....	2, 675. 07
Big Henk's meadow, 1.25 miles southeast of, 350 feet south of mouth of creek, at base of cliff 200 feet high, 3 feet north of 24-inch white-pine tree, on top of rock; cross marked "2661" .....	2, 661. 94
Big Henk's meadow, 2.5 miles southeast of, upper end of Long Pool, at base of cliff, 25 feet above water, on shelving rock; cross marked "2640" ..	2, 641. 21
Big Pool, 60 feet north of, 220 feet southeast of an old cabin, 7 feet northeast of 30-inch hemlock tree; iron post stamped "2636 S" .....	2, 636. 840
Big Pool, 1.25 miles southeast of, 300 feet east of mouth of creek, opposite old cabin, 3 feet above water, on highest point of large rock projecting above water; cross marked "2607" .....	2, 607. 77
Big Pool, 2.5 miles southeast of, on east bank of river, 60 feet west of foot of high cliff, 3 feet above water, on highest point of large rock; cross marked "2587" .....	2, 587. 59
Big Pool, 3 miles southeast of, on west bank of river, at base of cliff, 6 feet above water, on top of large rock; cross marked "2579" .....	2, 580. 27
Big Pool, 4 miles southeast of, west bank of river, opposite high cliff, in root of 30-inch cottonwood tree; nail marked "2564" .....	2, 564. 77
Kit Price's prairie, southeast end of, 40 feet west of river, in root of 48-inch twin cottonwood tree; nail marked "2535" .....	2, 536. 11

	Feet.
Kit Price's prairie, 1 mile southeast of, near middle of river, 3 feet above water, on large rock; cross marked "2519".....	2, 519. 87
Kit Price's prairie, 2 miles southeast of, on west bank of river, in root of 30-inch cottonwood tree; nail marked "2506".....	2, 506. 28
Kit Price's prairie, 3 miles southeast of, 0.5 mile north of mouth of Big Creek, on east bank of river, in root of 24-inch cottonwood tree; nail marked "2492".....	2, 492. 99
Big Creek, 1 mile southeast of mouth, on north bank of river, in root of cottonwood tree forking in three; nail marked "2474".....	2, 475. 06
Big Creek, 1.25 miles southeast of mouth, on south bank of river, opposite jagged cliff, in very large rectangular rock sloping down to water, 1 foot above high-water mark; aluminum tablet stamped "2472 S".....	2, 472. 314
Copper Bell mine, 200 feet east of mouth of tunnel, 50 feet east of location tunnel, on south bank of river, 7 feet above water, on projecting point of cliff; cross marked "2455".....	2, 456. 11
Copper Bell mine, 1.25 miles south of, 2.8 miles northeast of mouth of Prichard Creek, 5 feet above water, south bank of river, on top of large rock; cross marked "2438".....	2, 438. 32
Prichard Creek, 2 miles northeast of mouth, 1,600 feet west of Whipple's cabin, on south bank of river, in root of 18-inch cottonwood tree; nail marked "2425".....	2, 425. 88
Prichard Creek, 0.8 mile northeast of mouth, on south bank of river, opposite rocky point, in root of 24-inch twin cottonwood tree; nail marked "2409".....	2, 409. 74
Prichard Creek, 0.9 mile southwest of mouth, on east bank of river, 400 feet northwest of old cabin, opposite burned steep rocky slope, in root of 12-inch cottonwood tree; nail marked "2387".....	2, 387. 56
North Fork of Cœur d'Alene River, east side of, 200 feet north of Delta road, at foot of cliff, 7 feet above water; aluminum tablet stamped "2370 S".....	2, 372. 469
North Fork of Cœur d'Alene River, 30 feet east of, 160 feet north of Delta road, on narrow rock projecting from cliff, 11 feet above water; aluminum tablet stamped "2376 S".....	2, 376. 238
Beaver Creek, 3.3 miles west of, on south side of river, 800 feet north of cliff, in root of 30-inch cedar tree; nail marked "2325".....	2, 327. 24
Big Jam, 1.6 miles southwest of, on south bank of river, opposite high craggy cliff, at edge of burn, in root of 10-inch cedar tree; nail marked "2280".....	2, 280. 08
Castle Rock, 50 feet east of west end, flat rock sloping toward cliff; highest part marked "2256".....	2, 257. 61
Steamboat Rock, 200 feet east of, 60 feet from west end of cliff, east side of Steamboat Creek at mouth; aluminum tablet stamped "2248 S".....	2, 249. 44

From mouth of Bear Creek through Lake View to Pend Oreille Lake.<sup>1</sup>

Bear Creek, 0.8 mile north of mouth, 40 feet east of Bear Creek, 10 feet west of trail, in root of 20-inch spruce tree; nail marked "3098".....	3, 099. 46
Bear Creek, 1.25 miles north of mouth, 2 feet west of track, in root of black stump; nail marked "3151".....	3, 152. 78
Bear Creek, 2 miles north of mouth, 30 feet east of Bear Creek, 4 feet east of trail, in root of lone 36-inch white-pine tree; nail marked "3280".....	3, 281. 52
Bear Creek, 2.3 miles north of mouth, on steep open incline, 20 feet north-east of trail, in root of 10-inch black-pine tree; nail marked "3575".....	3, 576. 55

<sup>1</sup>The closure error in this circuit is excessive.

	Feet.
Bear Creek, 2.5 miles north of mouth, on steep open incline sloping south, 6 feet west of trail, in root of 24-inch line white-pine tree; nail marked "3974" .....	3,975. 44
Bear Creek, 2.8 miles north of mouth, on steep open incline sloping south, 25 feet east of trail, in root of 20-inch red-fir tree; nail marked "4440" .....	4, 441. 53
Bear Creek, 2.9 miles north of mouth, on steep open incline sloping south, 20 feet east of trail, in root of 9-inch fir tree; nail marked "4684" .....	4, 685. 03
Bear Creek, 3 miles north of mouth, on top of first summit on trail between mouth of Bear Creek and Lake View, 3 feet north of trail, in root of 24-inch red-fir tree; nail marked "4734" .....	4, 735. 53
Bear Creek, 3 miles north of mouth, on top of first summit between mouth of Bear Creek and Lake View, 3 feet below apex of rocky point, in flat black-shale rock; aluminum tablet stamped "4858 S" .....	4, 859. 519
Bear Creek, 3.25 miles northwest of mouth, on top of ridge, where trail makes first big drop toward Independence Creek, 5 feet west of trail, in root of 9-inch balsam-fir tree; nail marked "4838" .....	4, 839. 75
Bear Creek, 3.5 miles northwest of mouth, 1.8 miles south of Independence Creek, 3 feet east of trail, in root of 24-inch tamarack tree; nail marked "4522" .....	4, 523. 21
Bear Creek, 3.6 miles northwest of mouth, 1.7 miles south of Independence Creek, at foot of steep slope, in root of 30-inch fir tree; nail marked "4364" .....	4, 365. 71
Bear Creek, 4 miles northwest of mouth, 1.5 miles south of Independence Creek, 30 feet west of trail, on west slope of small grassy knoll, in root of balsam-fir tree forking in two; nail marked "4320" .....	4, 321. 39
Bear Creek, 4.25 miles northwest of mouth, 1.25 miles south of Independence Creek, on high bushy knoll, in root of 12-inch white-fir tree; nail marked "4515" .....	4, 516. 27
Bear Creek, 4.4 miles northwest of mouth, 1 mile south of Independence Creek, on steep brushy incline sloping west, 30 feet southwest of trail, in root of 10-inch hemlock tree; nail marked "4200" .....	4, 201. 41
Independence Creek, 0.25 mile south of, on steep wooded incline sloping down to creek, 6 feet north of trail, in root of 30-inch white-pine tree; nail marked "3691" .....	3, 692. 46
Independence Creek, 0.2 mile south of, on steep wooded point sloping down to creek, 20 feet north of trail, in root of 20-inch hemlock tree; nail marked "3576" .....	3, 577. 04
Mrs. Lovell's cabin, 6 feet southwest of, 120 feet south of Independence Creek, 5 feet north of trail, 11 miles southeast of Lake View; iron post stamped "3275 S" .....	3, 276. 557
Mrs. Lovell's cabin, 0.25 mile west of, 400 feet north of Independence Creek, 6 feet north of trail, on steep open point sloping south, in root of 10-inch fir tree; nail marked "3429" .....	3, 430. 10
Mrs. Lovell's cabin, 0.4 mile west of, 500 feet north of Independence Creek, at beginning of second switchback on trail, in root of 9-inch fir tree; nail marked "3645" .....	3, 646. 61
Independence and Bear Creek trails, 120 feet west of intersection of, on high burned divide, 12 feet north of Lake View trail, in root of 12-inch tamarack tree; nail marked "4280" .....	4, 281. 22
Weber mine, 1.6 miles southeast of, 150 feet south of summit of divide, 0.5 mile north of Independence Creek, 12 feet south of trail, in root of 30-inch tamarack tree; nail marked "4908" .....	4, 909. 55
Weber mine, 1.5 miles southeast of, on top of divide, burned ridge, 3 feet north of trail, in root of 24-inch tamarack tree; nail marked "4983" ...	4, 984. 75

	Feet.
Lake View, 6 miles southeast of, 1 mile southeast of Weber mine, at head of graded road, on lowest part of divide; iron post stamped "4602 S" . . . .	4, 604. 542
Weber mine, 120 feet southwest of entrance, 30 feet northwest of road, in root of large black stump; nail marked "3606" . . . . .	3, 607. 97
Conjecture mill, 4 miles southeast of Lake View, in top of stringer in southwest corner of mill; nail marked "3164" . . . . .	3, 165. 49
Lake View, 3.5 miles southeast of, 10 feet west of road, at foot of long hill, in root of black tree; nail marked "2764" . . . . .	2, 764. 96
Lake View, 1.8 miles southeast of, on top of hill, 7 feet east of county road, in root of 9-inch jack-pine tree; nail marked "2695" . . . . .	2, 697. 12
Lake View, corner of South Street and Rus Avenue, 1 foot north of southwest corner lot 8, block 6, 75 feet southeast of post office; iron post stamped "2269 S" . . . . .	2, 269. 824
Pend Oreille Lake, 100 feet south of, 1,500 feet north of Lake View, 50 feet east of North Gold Creek, in root of 36-inch twin cottonwood tree; nail marked "2064" . . . . .	2, 065. 60
Pend Oreille Lake, 60 feet east of mouth of North Gold Creek, at water surface; bridge spike . . . . .	2, 051. 45
Pend Oreille Lake, 60 feet east of mouth of North Gold Creek; surface of water Sept. 9 and Sept. 12, 1905 . . . . .	2, 051. 4

**From Kingston via Oregon-Washington R. R. & Navigation Co.'s tracks to Wallace.**

Kellogg, 200 feet southeast of station, 5 feet west of northwest corner of Hotel McKinniss; iron post stamped "2305 S" . . . . .	2, 305. 720
Osburn, 300 feet northwest of hotel, 3 feet north of north corner of grocery store, on west side of Mullan Avenue; iron post stamped "2521 S" . . . .	2, 521. 874
Wallace, 1 foot north of schoolhouse, 1 foot east of wall, 7 feet south of northeast corner; iron post stamped "2728 S" . . . . .	2, 728. 506

**From Osburn via Beaver and Delta to Murray.**

Beaver, 6 feet north of northeast corner of station house, 3 feet east of fence, 5 feet north of porch; iron post stamped "2785 S" . . . . .	2, 785. 385
Murray and Delta, summit of mountain between, 25 feet north of road; iron post stamped "3321 S" . . . . .	3, 321. 819
Murray, at intersection of Main and Second streets, 6 feet west of southwest corner of printing office; iron post stamped "2772 S" . . . . .	2, 772. 435

**From Murray via Eagle and east fork of Eagle Creek to point 4 miles east of Eagle (single spur line).**

Murray, 1.7 miles northwest of, 15 feet south of old flume, 5 feet south of road, in poplar tree; spike . . . . .	2, 654. 028
Murray, 2.7 miles northwest of, in tree 15 feet east of road; spike . . . . .	2, 601. 518
Eagle, 20 feet north of cabin, 30 feet east of road; iron post stamped "2546 S" . . . .	2, 547. 088
Eagle, 120 feet north of road, 350 feet west of white house, in fir tree; spike . . . .	2, 549. 896
Eagle, 1 mile east of, 450 feet southeast of house, south of road, in spruce tree; spike . . . . .	2, 619. 773
Eagle, 1.2 miles east of, 50 feet east of forks of road, in spruce tree; spike . . . .	2, 626. 716
Eagle, 4 miles east of, 400 feet northeast of branches of creek, north of road, at base of cliff, in quartz rock; copper bolt stamped "2892 S" . . . . .	2, 892. 674
Delta, Murray, and Little North Fork roads, 210 feet east of intersection of, 40 feet south of creek at bend in road, in root of 12-inch pine tree; nail . . . .	2, 532. 768
Halzandorf's ranch, 780 feet north of, forks of roads, east side of road, in root of cedar tree; nail . . . . .	2, 230. 457

Feet.

**From Wallace east along Northern Pacific Ry. to Idaho-Montana boundary line.**

Mullan, 15 feet west of station, at corner of sidewalk, at base of Northern Pacific Ry. station steps; iron post stamped "3244 S" .....	3, 244. 855
Lookout, summit of Bitterroot Mountain, Mont., 250 feet south of Montana-Idaho State line, 30 feet west of station; iron post stamped "4727 S" ...	4, 727. 268

**From Wallace east via Gem and Burke to Glidden Pass.**

Granite, opposite Granite mill, 10 feet north of Canyon Creek, in root of pine stump; spike .....	3, 168. 202
Gem, 725 feet east of Granite mill, 6 feet west of house, on fence line, 45 feet north of Northern Pacific Ry., 20 feet north of wagon road, in granite boulder 5 by 5 by 4 feet; aluminum bolt, stamped "3197 S" .....	3, 197. 045
Burke, 15 feet north of Northern Pacific Ry. track, 15 feet east of house, 17 feet northeast of telegraph pole, 60 feet west of road crossing, 10 feet north of wagon road, 180 feet west of station, in rock at base of cliff; aluminum tablet stamped "3736 S" .....	3, 736. 657
Burke, in front of station; top of rail .....	3, 740. 9
Burke, 1.6 miles northeast of, south of Tiger-Poorman electric station, 18 feet north of wagon road, in spruce tree; spike .....	4, 100. 33
Burke, 3 miles east of, 100 feet north of flume, 1 foot south of road, in root of 4-inch fir tree; spike .....	4, 783. 67
Glidden Pass, 15 feet east of road, summit of Bitterroot Mountains, in white limestone pillar 5 by 5 inches at top, 2.3 feet high, projecting 4 inches above ground; aluminum tablet stamped "5768" .....	5, 768. 296

**From Murray east through Raven to Thompson Pass, Idaho-Montana State line.**

Murray, 1 mile east of, 2 feet west of road, in root of pine stump; spike ...	2, 911. 337
Raven, 100 feet south of old sawmill, at north end of Burke trail, at mouth of Granite Creek, in boulder 6 inches above ground, at base of stump; aluminum tablet stamped "3060 S" .....	3, 060. 761
Raven, 1.1 miles east of, 20 feet south of road, in root of 8-inch pine tree; spike .....	3, 258. 155
Sullivan, 1 mile east of, 2 feet north of road, 35 feet northeast of blazed tree on south side of road, in sandstone; cross .....	3, 908. 110
Summit of Bitterroot Mountain, 25 feet northeast of road, 25 feet southeast of flume; iron post stamped "4862 S" .....	4, 862. 292

**From Burke along trail to Raven.**

Burke, 1 mile north of, 2 feet south of trail at switchback, in root of 5-inch spruce tree; spike .....	4, 632. 70
Summit, 6 feet east of trail; iron post stamped "5839 S" .....	5, 839. 468

**From Beaver through Dobson Pass to Wallace.**

Beaver, 2 miles southeast of, 12 feet east of road, in 1-foot pine tree; spike ..	3, 502. 23
Beaver, 3 miles southeast of, 6 feet east of road, in 2-foot spruce tree; spike ..	3, 948. 90
Dobson Pass, 12 feet south of road; iron post stamped "4179 S" .....	4, 179. 934
Dobson Pass, 1.1 miles southeast of, 10 feet west of road, in root of 18-inch tamarack tree; spike .....	3, 802. 13

**From Kellogg via county road to Wardner.**

Kellogg, 0.7 mile south of, 20 feet southeast of telephone pole, west of road, in cedar stump; nail .....	2, 521. 353
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	Feet.
Wardner, in foundation of Empire State-Idaho Mining & Developing Co.'s compressor, under cylinder head of high pressure air cylinder; aluminum tablet stamped "2880 S".....	2,880. 142
Wardner, Bunker Hill & Sullivan machine shop, 300 feet north of, on rock west of road; cross.....	2,960. 301

**From Delta along wagon road and trail down North Fork of Cœur d'Alene River to Kingston.**

Delta, 1 mile northwest of, 150 feet southeast of house, on west side of bend in road, in root of poplar tree; nail.....	2,471. 035
Delta, 2 miles northeast of, east side of road, in root of dead fir tree; nail..	2,433. 166
North Fork of Cœur d'Alene River, at intersection of road with river, in twin cedar; nail.....	2,369. 643
North Fork of Cœur d'Alene River, east side of, 200 feet north of Delta road, at foot of cliff, 7 feet above river; aluminum tablet stamped "2370 S"...	2,371. 772
Morrison's mine, on rock at entrance; cross.....	2,332. 901
Big Jam, 450 feet east of, sunk into a flat rock sloping into river, 3 feet above surface, on south side; aluminum tablet stamped "2297 S".....	2,298. 950
Big Jam, 1 mile west of, 1,000 feet southwest of junction of old channel and northwest channel of river, on south side, on rock 3 feet above surface of water; cross.....	2,287. 046

**Bonnors Ferry, Calispell, Pend Oreille, and Sandpoint quadrangles.**

**BONNER AND KOOTENAI COUNTIES.**

The elevations in the following list were determined by a double primary-level line from Tacoma and by other primary lines. The list includes descriptions taken from the appendix to the Twentieth Annual Report of the Geological Survey, pages 471 to 474, inclusive, and pages 521 and 522, with readjusted elevations.

The leveling was done in the Sandpoint quadrangle in 1897 by Charles Harlow, jr., in 1898 by W. R. Prowell and H. S. Crowe; in the Pend Oreille quadrangle in 1898 by Crowe, and in 1903 by G. H. Kendall; in the Calispell quadrangle in 1898 by Prowell; and in the Bonners Ferry quadrangle in 1904 by M. S. Bright, J. G. Hefty, and Kendall.

**SANDPOINT QUADRANGLE.**

[Latitude 48°-48° 30'; longitude 116° 30'-117°.]

**From Granite along Northern Pacific Ry. to Sandpoint.**

	Feet.
Granite, in front of station; top of rail.....	2,260. 7
Granite, 45 feet west of west edge of station platform, 20 feet south of center of track, near telegraph pole; iron post stamped "2262 T".....	2,262. 666
Milepost 213, 19 feet west of, 28 feet west of center of track; iron post stamped "2251 T".....	2,251. 252
Cocolalla, in front of section house; base of rail.....	2,220. 3
Milepost 218, 250 feet northeast of, 18 feet north of railroad, southeast of whistling post; iron post stamped "2226 T".....	2,226. 419
Algoma siding; top of east head block.....	2,177. 4
Milepost 224, 390 feet southeast of, 25 feet south of railroad track, at west end of cut; iron post stamped "2167 T".....	2,167. 277

	Feet.
Sandpoint, in front of station; top of rail.....	2, 086. 4
Sandpoint, 83 feet southwest of Northern Pacific station, 6 feet north of Butler & Culver warehouse, west side of street, at edge of sidewalk, 62 feet west of main track; iron post stamped "2087 T," restamped "2085" when reset.....	2, 085. 107
Sandpoint, T. 57 N., R. 2 W., 32 feet northeast of Spokane International Ry. section house; iron post stamped "2117 T".....	2, 117. 498
Sandpoint, in front of telegraph office of Northern Pacific Ry. station; top of rail.....	2, 119. 4

**From Albane Falls east and north along Great Northern Ry. to point 3 miles northeast of Colburn.**

Priest River, in front of station; top of rail.....	2, 080. 4
Priest River, 75 feet south by 167 feet east of water tank, 75 feet south of south rail; iron post stamped "2077 P. R.".....	2, 082. 394
Markham, in southeast corner of sec. 20, T. 56 N., R. 3 W., 60 feet from front door of post office, inside yard; iron post stamped "2088 P. R.".....	2, 093. 580
T. 57 N., R. 3 W., SW. $\frac{1}{4}$ sec. 26, in center of C. Carr's front yard, 100 feet from house; iron post stamped "2087 P. R.".....	2, 091. 959
Colburn, 1.2 miles north of section house, northwest corner of T. 58 N., R. 1 W., 1,700 feet northwest of railway track; iron post stamped "2127 P. R.".....	2, 133. 432

**From Elmira siding to corner of Tps. 59 and 60 N., Rs. 1 and 2 W.**

Elmira, 3.2 miles west of, northwest corner of T. 59 N., R. 1 W.; aluminum tablet stamped "4031 P. R.".....	4, 037. 680
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**From Cary Ferry south and west to Medler Lake.**

T. 55 N., R. 4 W., sec. 33, 100 feet from Vogler's house, at north gatepost; iron post stamped "2222 P. R.".....	2, 227. 625
T. 54 N., Rs. 4 and 5 W., quarter corner between secs. 24 and 19, 900 feet south of road; iron post stamped "2286 P. R.".....	2, 291. 060

**From Priest River northwest along road up West Branch.**

Terrells Falls, near east side of sec. 16, T. 57 N., R. 5 W., at east end of bridge across West Branch of Priest River, just below falls, about 600 feet east of Terrell's house; iron post stamped "2289 P. R.".....	2, 294. 785
T. 58 N., R. 5 W., SW. $\frac{1}{4}$ sec. 27, at lower end of S. H. Moor's ranch, at west side and north end of bridge across small stream, about 400 feet from section corner; iron post stamped "2411 P. R.".....	2, 416. 192

**From Priest River north along road to Priest Lake.**

Tps. 56 and 57 N., R. 4 W., on line between, 5 yards west of road; iron post stamped "2371".....	2, 376. 053
Tps. 57 and 58 N., R. 4 W., on line between, 5 yards west of road; iron post stamped "2405".....	2, 410. 730
Tps. 58 and 59 N., R. 4 W., on line between, 4 yards west of road; iron post stamped "2543".....	2, 548. 002
Coolin, in west end of town, on property of Mr. Warren, 2 feet southwest of dead tree used as telephone pole, 3 feet inside fence inclosing office of Kaniksu National Forest, 75 feet south of Priest Lake; iron post stamped "2446".....	2, 451. 063
Priest Lake; surface of water September, 1898.....	2, 439. 4
Priest Lake, at Coolin, August 29, 1905.....	2, 438. 9
Coolin, 200 yards south of, triangulation station; iron post.....	2, 445. 235

## From Coolin to corner of Tps. 59 and 60 N., Rs. 4 and 5 W.

	Feet.
Coolin, 2.5 miles northwest of, northwest corner of T. 59 N., R. 4 W., in rock; aluminum tablet stamped "3760".....	2, 765. 854

## From Coolin to corner of Tps. 59 and 60 N., Rs. 3 and 4 W.

Coolin, 3.8 miles northeast of, northwest corner of T. 59 N., R. 3 W., in rock; aluminum tablet stamped "3852 P. R.".....	3, 857. 716
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## From Priest Lake road east to southwest corner of T. 58 N., R. 3 W.

T. 58 N., R. 3 W., southwest corner of, in rock; aluminum tablet stamped "3491 P. R.".....	3, 496. 581
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## Spur line from Northern Pacific Ry. to northwest corner of T. 56 N., R. 1 W.

T. 56 N., R. 1 W., northwest corner of, 5.5 miles from Sandpoint, 1.8 miles east of Northern Pacific Ry. track; iron post stamped "3376".....	3, 381. 801
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## Spur line from Northern Pacific Ry. to northwest corner of T. 54 N., R. 2 W.

T. 54 N., R. 2 W., northwest corner of, 0.6 mile east of Northern Pacific Ry. track; iron post stamped "2289".....	2, 294. 004
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## PEND OREILLE QUADRANGLE.

[Latitude 48°-48° 30'; longitude 116°-116° 30'.]

## From Sandpoint along Northern Pacific Ry. to Idaho-Montana boundary line.

Kootenai, 60 feet north of post office door; iron post stamped "2117 T"....	2, 116. 840
Oden siding; top of east headblock.....	2, 075. 2
Milepost 240, 300 feet east of, on knoll, 30 feet south of center of track; iron post stamped "2079 T".....	2, 078. 951
Hope, in front of telegraph office; top of rail.....	2, 078. 2
Hope, 70 feet west of station, in lot between hotel and station, 20 feet north of center of track; iron post stamped "2080 T".....	2, 079. 692
Thornton, 225 feet southeast of station, east end of siding, 45 feet south of track at east end of cut; iron post stamped "2103 T".....	2, 102. 546
Clark Fork, 90 feet east of milepost marked "H 10 Hlna 288," at east corner of fence of railroad section house; iron post stamped "2081 T"....	2, 081. 141
Clark Fork, second crossing; surface of water.....	2, 062. 5
Cabinet, in front of section house; top of rail.....	2, 186. 4
Idaho-Montana boundary line, at signboard 15 feet north of track; iron post stamped "2212 T".....	2, 212. 182

## From point near Elmira north via Great Northern Ry.

Elmira, 1 mile north of, 50 feet east of track, 30 feet southeast of road crossing; iron post.....	2, 148. 539
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## BONNERS FERRY QUADRANGLE.

[Latitude 48° 30'-49°; longitude 116°-116° 30'.]

## From point near McCarthy siding north along Great Northern Ry. to Bonners Ferry.

Milepost 1383, 135 feet south of, 40 feet southeast of track, in slope; iron post.	2, 104. 270
Naples, 1,000 feet south of station, opposite milepost 1380, 65 feet east of track, 700 feet south of water tank; iron post.....	2, 018. 337
Naples, in northeast corner of northeast foundation stone under water tank; cross.....	2, 028. 212
Bridge 211, 1,000 feet north of, 300 feet northwest of cut, 120 feet west of track, at first telegraph pole south of milepost 1377; iron post.....	1, 955. 481

	Feet.
Milepost 1374, opposite, 300 feet northeast of tunnel 10, 150 feet west of track on old roadbed, 100 feet southwest of road at Dunn's ranch; iron post.	1,834.911
Moravia, in front of station sign; top of west rail.....	1,849.1
Mirror Lake; surface of water July 13, 1904.....	1,763.9
Bonnors Ferry, 2.5 miles southwest of, opposite milepost 1371, 60 feet west of track, on east shore of Mirror Lake; iron post.....	1,766.663
Bonnors Ferry, in front of Great Northern Ry. station; top of rail.....	1,778.8

**From Bonnors Ferry via Kootenai Valley Ry. to international boundary line.**

Bonnors Ferry, 0.5 mile east of, 30 feet northeast of railroad track where it enters a cut, south corner of town lot 18, block 1, near residence of Benj. Morrow; iron post.....	1,786.594
Bonnors Ferry, near Kootenai River, under bridge; surface of water March 28, 1904.....	1,748
Bonnors Ferry, 2.4 miles north of, at edge of right of way, 30 feet east of track, at north edge of small cleared flat at mouth of draw on sharp curve of track; iron post.....	1,792.204
Bonnors Ferry, 6 miles north of, 30 feet east of track, 150 feet north of Wriders cabin, at fence; iron post.....	1,789.242
Bonnors Ferry, 9 miles north of Emphy's house, at road crossing, 30 feet east of track, at edge of wagon road, at foot of rocky bank; iron post.....	1,788.097
Copeland, 5 miles south of McRay's ranch, in front of house, 20 feet east of track, 50 feet north of small creek; iron post.....	1,789.484
Copeland, 2.4 miles south of, 150 feet south of milepost 14, 30 feet east of track; iron post.....	1,799.751
Copeland, 450 feet north of Cole's store, 40 feet east of track; iron post.....	1,788.474
Port Hill, 2.8 miles south of, on bank 30 feet east of track, 170 feet north of trestle 10; iron post.....	1,783.838
Port Hill, in front of station; top of rail.....	1,781.7
Port Hill, international boundary line, 4 feet west of original stone monument marking boundary, 60 feet east of railroad, east of Kootenai River; iron post.....	1,797.277

**CALISPELL QUADRANGLE.**

[Latitude 48°-48° 30'; longitude 117°-117° 30'.]

**From Newport south to Medler Lake.**

Newport, Washington-Idaho State line, corner of secs. 24 and 25, T. 56 N., R. 6 W.; iron post stamped "2128 P. R.".....	2,133.281
T. 54 N., R. 5 W., northwest corner of; iron post stamped "2326 P. R."....	2,331.843

**Priest Lake quadrangle.**

**KOOTENAI COUNTY.**

The following elevations are based on that of an iron post stamped "2442" near the edge of Priest Lake, at Coolin, the accepted elevation of which is 2,447.102 feet. Water leveling was used in determining elevations at other points on the lake, and from these single-spur primary-level lines were run, and the elevations are therefore unchecked. The Coolin elevation is determined in part through primary circuits and in part by a single-spur line in the Sandpoint quadrangle.

from the double line from Tacoma, as published on page 521 of the appendix to the Twentieth Annual Report of the Geological Survey.  
The leveling was done in 1905 by A. L. Glover.

# PRIEST LAKE QUADRANGLE.

[Latitude 48° 30'-49°; longitude 116° 30'-117°.]

## Near Reeder Creek and Bear Creek.

	Feet.
Priest Lake; surface of water August 31, 1905.....	2, 438. 8
Reeder Creek, about 1,000 feet north of mouth, 90 feet west of end of old Reeder Creek trail, 130 feet west of water's edge, on top of first terrace, 7 feet north of trail, 6 feet northwest of stump 10 inches in diameter and 50 feet high, 300 feet north of only live fir and cedar trees in the vicinity; iron post stamped "2468".....	2, 467. 999
Bear Creek Bay, south side of, opposite mouth of Granite Creek, about halfway to end of point from mouth of Bear Creek, on east side of lake, at old camp, 50 feet south of water's edge, about middle of small sandy stretch of beach rocky at both ends, 10 feet north of blazed and marked 24-inch pine tree; iron post stamped "2447".....	2, 446. 990
<b>From Thoroughfare (watercourse between Lower and Upper Priest lakes) north along Continental mine trail to Continental mine.</b>	
Thoroughfare, on east bank, at south end, 200 feet from water opposite entrance, between two blazed tamarack trees about 18 inches in diameter, one of which has top broken off—the only large trees on the end of bar—10 feet from each tree; iron post stamped "2447".....	2, 447. 107
Thoroughfare, 0.7 mile from south end of, on east bank, 15 feet from water, in root of 18-inch blazed tamarack tree; spike marked "2447".....	2, 447. 08
Thoroughfare, 1.3 miles from south end of, north side of Caribou Creek, on end of point between entrance of Caribou Creek into Thoroughfare, 30 feet east of Thoroughfare, 15 feet north of water's edge in Caribou Creek, in root of 10-inch pine tree; spike marked "2450".....	2, 450. 01
Thoroughfare, 2 miles from south end of, 40 feet west of water's edge, at foot of 30-inch cedar tree, in small stump 3 inches high and 4 inches in diameter, near tree blazed and marked "2455"; spike.....	2, 455. 41
Thoroughfare, north end of, at south end of upper lake, 8 feet east of 18-inch blazed and marked spruce tree, 50 feet north of 24-inch blazed pine tree, 75 feet east of water's edge, 20 feet east of edge of sand beach, 150 feet northeast of end of sand point; iron post stamped "2447".....	2, 447. 004
Upper Priest Lake; surface of water September 2, 1905.....	2, 438. 95
Upper Priest Lake, at north end, on east side, where Continental mine trail reaches shore of lake, 50 feet east of water, 5 feet west of trail, 15 feet east of 10-inch cottonwood tree blazed and marked "2447"; iron post stamped "2447".....	2, 447. 025
Continental mine, 10.3 miles south of, 1 foot east of trail, near dead 48-inch cedar tree, in stump; nail marked "2454".....	2, 453. 68
Continental mine, 9.9 miles south of, 1 foot west of trail, in root of 24-inch cedar tree; spike marked "2489".....	2, 488. 78
Continental mine, 9.4 miles south of, 10 feet west of trail, in root of 18-inch cedar tree; nail marked "2512".....	2, 511. 81
Continental mine, 8.9 miles south of, 12 feet east of trail, in root of 24-inch hemlock tree; nail marked "2487".....	2, 487. 22
Continental mine, 8.2 miles south of, 20 feet east of trail, in root of dead 12-inch stump 30 feet high; nail marked "2594".....	2, 594. 30

Feet.

Continental mine, 7.8 miles south of, 4 feet west of trail, in root of 24-inch cedar tree; nail marked "2620" .....	2, 620. 36
Continental mine, 7.4 miles south of, 3 feet east of trail, in root of 30-inch hemlock tree; nail marked "2638" .....	2, 638. 27
Continental mine, 6.8 miles south of, 15 feet east of trail, in root of 30-inch cedar tree; nail marked "2664" .....	2, 664. 31
Continental mine, 6.5 miles south of, 4 feet west of trail, in root of 12-inch hemlock tree; nail marked "2676" .....	2, 676. 34
Continental mine, 5.8 miles south of, 4 feet east of trail, in root of 36-inch cedar tree; nail marked "2705" .....	2, 704. 82
Continental mine, 5.1 miles south of, short distance east of mouth of Cedar Creek, 1 foot above and 2 feet east of trail to Continental mine, 10 feet northwest of blazed and marked 18-inch cedar tree 4 feet west of trail, on top of small hill over the end of which the trail passes, in 3-foot granite rock; aluminum tablet stamped "2736" .....	2, 735. 990
Continental mine, 4.8 miles south of, west edge of trail, in root of 18-inch hemlock tree; nail marked "2873" .....	2, 872. 84
Continental mine, 4.4 miles south of, 6 feet east of trail, in root of 30-inch cedar tree; nail marked "2913" .....	2, 913. 15
Continental mine, 4.1 miles south of, 15 feet east of trail, in root of 30-inch hemlock tree; nail marked "2950" .....	2, 950. 44
Continental mine, 3.7 miles south of, 15 feet southeast of trail, about 200 yards south of first cabin on Cedar Creek where trail crosses, in root of 42-inch hemlock tree; nail marked "3079" .....	3, 079. 23
Continental mine, 3.4 miles south of, in Cedar Creek at trail crossing, surface of water September 17, 1905; elevation marked on 24-inch cedar log across stream 4 feet above water, 30 feet northeast of trail crossing and 75 feet south of cabin .....	3, 089. 7
Continental mine, 3.4 miles south of, 100 feet north of creek, 15 feet west of northwest corner of cabin, at trail crossing Cedar Creek, 1 foot east of trail, in root of 48-inch cedar tree; nail marked "3115" .....	3, 114. 77
Continental mine, 3 miles south of, 2 feet south of second cabin on trail, 7 feet east of southeast corner of house, side of house marked "3381;" marked point on rock .....	3, 381. 22
Continental mine, 2.6 miles south of, south edge of trail, on top of first high point crossed by trail, above second cabin on trail, in root of 4-inch birch tree; nail marked "3705" .....	3, 705. 44
Continental mine, 2.2 miles south of, 10 feet north of trail, 50 feet northwest of small creek just before reaching Cedar Creek, where trail crosses at lowest place trail strikes, in root of 30-inch cedar tree; nail marked "3693" .....	3, 692. 87
Continental mine, 1.8 miles south of, 200 feet north of Cedar Creek, 20 feet south of trail, 2 feet southeast of stream 1 foot wide, 100 feet south of large stream, both crossed by trail which then runs parallel to Cedar Creek, in root of 48-inch hemlock tree; nail marked "3920" .....	3, 919. 59
Continental mine, 1.77 miles south of, on trail, 1,000 feet south of third cabin up trail, near 12-inch hemlock tree 5 feet north of trail, in a 5-foot granite rock, 2 feet above ground; aluminum tablet stamped "3932" .....	3, 932. 065
Continental mine, 1.6 miles south of, east edge of trail, near 24-inch dead burnt fir tree marked "4058," 400 feet south of cabin; marked point on rock .....	4, 058. 07
Continental mine, 1.5 miles south of, at southeast corner of cabin, in log; nail, marked on cabin "4176" .....	4, 175. 66

	Feet.
Continental mine, 1.1 miles south of, 2 feet east of trail, near point where trail crosses gulch below Dark Horse mine; point on rock marked "4773".....	4, 773. 12
Continental mine, 0.8 mile south of, 5 feet east of trail, 6 feet north and 50 feet east of point where trail crosses second draw below Dark Horse mine; point on rock marked "4989".....	4, 989. 18
Continental mine, 0.7 mile south of, 12 feet east of trail; point on rock marked "5167".....	5, 166. 92
Continental mine, 400 feet south of shaft house, on outcropping rock above rock pile above slide; marked point on rock.....	5, 774. 26
Continental mine, 400 feet east of shaft house, near top of mound in center of upper saddle in ridge between Cedar Creek and Blue Joe Creek, 12-inch stump blazed and marked on all four sides; nail marked "5850".....	5, 850
Continental mine, 6 feet north of trail from Continental boarding house to Continental shaft house, at top of ridge between Cedar Creek and Blue Joe Creek, in solid rock outcrop; aluminum tablet stamped "5890".....	5, 890. 001

#### Bruneau, Mountain Home, Riddle, and Tindall quadrangles.

##### ELMORE AND OWYHEE COUNTIES (including Duck Valley Indian Reservation).

The elevations in the following list were determined by primary leveling done by the General Land Office and accord with the 1912 adjustment elevation of C. & G. S. bench-mark N<sub>4</sub> at Mountain Home. The net consists of a small circuit lying partly in Nevada with two single spur lines, and dependent upon a long unsupported single line from Mountain Home. The elevations are therefore unreliable until further checked.

The adjustment and orthometric corrections have been made by the U. S. Geological Survey.

The leveling in Bruneau, Mountain Home, and Tindall quadrangles was done in 1911, and that in Riddle quadrangle in 1911 and 1912.

The Nevada portion is contained in another list.

#### MOUNTAIN HOME QUADRANGLE.

[Latitude 43°-43° 30'; longitude 115° 30'-116°.]

From Mountain Home south along highway to point 3 miles north of Snake River (unchecked spur line, elevations unreliable).

	Feet.
Mountain Home, east end of Oregon Short Line R. R. park, 7 feet from east fence, in black-lava post; bottom of square hole (U. S. C. & G. S. b. m. N <sub>4</sub> ).....	3, 138. 970
Mountain Home, 1.02 miles south of, 30 feet south of bridge, in corner fence post; spike.....	3, 120. 42
Mountain Home, 2.16 miles south of, 1,200 feet northeast of farmhouse on right side of road, 15 feet east of center of Mountain Home-Bruneau stage road, flush with ground; stake.....	3, 113. 91
Mountain Home, 3.1 miles south of, in yard of S. N. Pierce, 100 feet east of house, 3 feet from corner post of front-yard fence; standard bench-mark post stamped "3086.793".....	3, 088. 117
Mountain Home, 4.11 miles south of, 50 feet east of irrigation flume, 15 feet west of center of Mountain Home-Bruneau road; stake.....	3, 076. 60
Mountain Home, 5.23 miles south of, 600 feet north of house, 25 feet east of Mountain Home-Bruneau road, in corner post of fence; spike.....	3, 067. 76

	Feet.
Mountain Home, 5.98 miles south of, 5 feet east of center of old Mountain Home-Bruneau stage road, in corner post of fence; spike.....	3, 061.02
Mountain Home, 9 miles south of, 0.25 mile west of home of S. Madsen, in sagebrush flat, set 4 feet inside of fence from corner post; standard bench-mark post stamped "3045.076".....	3, 046.418
Mountain Home, 9.77 miles south of, 500 feet north of small summit in road, 7 feet west of old Mountain Home-Bruneau road, flush with ground; stake.....	3, 045.09
Mountain Home, 10.43 miles south of, on bare spot in sagebrush flat, 10 feet east of center of old Mountain Home-Bruneau road, flush with ground; stake.....	3, 034.72

## BRUNEAU QUADRANGLE.

[Latitude 42° 30'-43°; longitude 115° 30'-116°.]

From point near Snake River south along highway to a point 4 miles north of Blackstones ranch (unchecked spur line, elevations unreliable).

Mountain Home, 12 miles south of, on summit of point of small ridge, 200 feet west to similar summit; standard bench-mark post stamped "3029.930" .....	3, 030.281
Mountain Home, 12.14 miles south of, 8 feet east of center of old Mountain Home-Bruneau stage road, flush with ground; stake.....	3, 012.53
Mountain Home, 12.98 miles south of, on rim of Snake River valley, 8 feet east of center of old Mountain Home-Bruneau road; top of marked rock.....	3, 004.99
Mountain Home, 13.26 miles south of, 25 feet west of large bowlder, 100 feet north of center of old Mountain Home-Bruneau stage road; top of marked rock.....	2, 911.66
Mountain Home, 13.38 miles south of, east side of road at turn; top of marked rock.....	2, 859.84
Mountain Home, 13.86 miles south of, 1,200 feet north of junction of old and new road, 6 feet east of old Mountain Home-Bruneau stage road; stake .....	2, 725.75
Mountain Home, 14.7 miles south of, 14.7 miles north of Hot Springs, 6 feet east of center of Mountain Home-Bruneau road; stake.....	2, 616.56
Hot Springs, 14.3 miles north of, 150 feet north of center of Mountain Home-Bruneau road, 50 feet west of first telephone pole on rise; top of marked rock.....	2, 522.52
Hot Springs, 14 miles north of, 0.5 mile north of Loveridge Ferry, 20 feet east of intersection of roads; stake .....	2, 472.39
SNAKE RIVER; water level August 4, 1911 (medium stage).....	2, 445.6
Hot Springs, 13.2 miles north of, 100 feet south of and 12 feet above Snake River, 100 feet west of front of home of P. W. Beckley, 6 feet east of fence, near telephone pole; standard bench-mark post stamped "2456.101" ..	2, 457.462
Hot Springs, 12.8 miles north of, 10 feet east of center of Mountain Home-Bruneau road, between two telephone lines above first rise from ferry; stake.....	2, 502.84
Hot Springs, 12.1 miles north of, 50 feet east of telephone line, 6 feet west of center of Mountain Home-Bruneau road; stake.....	2, 536.65
Hot Springs, 11.2 miles north of, 4 feet west of center of Mountain Home-Bruneau stage road; stake.....	2, 600.77
Hot Springs, 10.5 miles north of, 6 feet west of center of Mountain Home-Bruneau stage road; stake.....	2, 762.02



	Feet.
Hot Springs, 10 miles north of, 8 feet east of center of Mountain Home-Bruneau stage road; stake.....	2, 881. 38
Hot Springs, 9.8 miles north of, 3.4 miles south of Loveridge's Ferry, 700 feet east of east telephone line, 20 feet west of junction of roads on summit of south rim of Snake River valley; standard bench-mark post stamped "2949.993".....	2, 951. 367
Hot Springs, 9 miles north of, on edge of butte, 100 feet north of Mountain Home-Bruneau stage road; stake.....	2, 923. 64
Hot Springs, 8.7 miles north of, 25 feet east of center of Mountain Home-Bruneau road, on gravel knoll; stake.....	2, 797-15
Hot Springs, 8.1 miles north of, 50 feet west of Mountain Home-Bruneau road, on edge of butte; stake.....	2, 627. 19
Hot Springs, 7.3 miles north of, midway between road and irrigation ditch; stake.....	2, 548. 47
Hot Springs, 6.4 miles north of, 50 feet north of irrigation ditch, 6 feet north of center of Bruneau-Hot Springs road; stake.....	2, 551. 55
Hot Springs, 6 miles north of, in grove of poplars, 1,200 feet from ranch house, 900 feet north of irrigation ditch, 40 feet south of Hot Springs-Bruneau stage road, 4 feet west inside fence of corner post on ranch of Ben Crabb; standard bench-mark post stamped "2576.829".....	2, 578. 214
Hot Springs, 5.3 miles north of, 50 feet north of northeast corner of corral, 20 feet north of center of Hot Springs-Bruneau road, on bare spot; stake..	2, 562. 42
Hot Springs, 4.6 miles north of, 750 feet east of small ranch, 6 feet south of center of Bruneau-Hot Springs road; stake.....	2, 568. 04
Hot Springs, 3.8 miles north of, 500 feet south of schoolhouse, midway between Bruneau-Hot Springs road and canal, on bare spot; stake.....	2, 556. 93
Hot Springs, 3.2 miles north of, 20 feet west of center of Bruneau-Hot Springs road; stake.....	2, 564. 70
Hot Springs, 2.5 miles north of, 6 feet east of center of Bruneau-Hot Springs road; stake.....	2, 596. 98
Hot Springs, 2.3 miles north of, 1,000 feet east of irrigation ditch, near curve in road around bottom edge of butte, 50 feet north of small ravine, 10 feet south of center of Bruneau-Hot Springs road, in bare spot on small summit; standard bench-mark post stamped "2603.015".....	2, 604. 413
Hot Springs, 1.8 miles north of, 10 feet west of center of Bruneau-Hot Springs road; stake.....	2, 616. 58
Hot Springs, 1.2 miles north of, north side of ravine, on bare knoll, 10 feet west of center of Bruneau-Hot Springs road; stake.....	2, 625. 86
Hot Springs. 0.6 mile north of, southeast of ranch of A. J. Pence, between road and canal, in front of small house; stake.....	2, 597. 39
Hot Springs P. O., steel bridge over Bruneau River at, on west wing wall of south approach; square cut.....	2, 592. 28
Hot Springs, at front door of post office, on stone step; (O. S. L. Ry. b. m. 2639.22).....	2, 589. 50
Hot Springs, 0.3 mile south of, 100 feet east of telephone line, in gulch; marked rock.....	2, 656. 02
Hot Springs, 1 mile south of, 600 feet north of summit in road, 25 feet west of center of Hot Springs-Grasmere road; stake.....	2, 813. 69
Hot Springs, 1.2 miles south of, 1 mile west of Hot Creek canyon, 0.25 mile north of conical hill west of road, 800 feet east of telephone line, on south rim overlooking valley of Bruneau River, on summit of ridge, 25 feet west of center of Hot Springs-Grasmere road; standard bench-mark post stamped "2901.708".....	2, 903. 117

	Feet.
Hot Springs, 1.9 miles south of, 800 feet north of terraced cove west of road, 15 feet west of center of Hot Springs-Grasmere road; stake.....	2,893.65
Hot Springs, 2.5 miles south of, 800 feet south of junction, 6 feet west of center of Hot Springs-Grasmere road; stake.....	2,940.77
Hot Springs, 3.2 miles south of, 0.25 mile east of big rock cliff, on Hot Creek canyon, 1,000 feet east of telephone line, 250 feet west of Hot Springs-Grasmere road; stake.....	2,885.00
Hot Springs, 3.8 miles south of, on south side of Hot Creek canyon, 10 feet from watercourse, 5 feet east of center of Hot Springs-Grasmere road; stake.....	2,818.59
Hot Springs, 4.2 miles south of, 250 feet west of road crossing, in watercourse; stake.....	2,901.04
Hot Springs, 4.6 miles south of, 5 feet west of center of Hot Springs-Grasmere road and watercourse; stake.....	3,030.71
Hot Springs, 5 miles south of, 30 feet south of watercourse, 8 feet east of center of road; stake.....	3,098.94
Hot Springs, 5.2 miles south of, 0.25 mile south of two buttes 1,000 feet apart, on east side of Hot Creek canyon, 6 feet west of center of Hot Springs-Grasmere road; standard bench-mark post stamped "3128.733".....	3,130.152
Hot Springs, 5.8 miles south of, 20 feet west of center of Hot Springs-Grasmere road, on bare spot; stake.....	3,178.14
Hot Springs, 6.3 miles south of, in watercourse; stake.....	3,248.39
Hot Springs, 7 miles south of, 200 feet east of center of Hot Springs-Grasmere road, in watercourse; stake.....	3,335.90
Hot Springs, 7.3 miles south of, in ravine, flush with ground; stake.....	3,420.20
Hot Springs, 8.2 miles south of, 200 feet east of center of Hot Springs-Grasmere road, in center of abandoned road; stake.....	3,458.62
Hot Springs, 8.6 miles south of, 600 feet east of road, east side of ravine; top of marked boulder.....	3,495.23
Hot Springs, 9.2 miles south of, in ravine, 20 feet east of wash; stake.....	3,578.73
Hot Springs, 8.6 miles south of, 100 feet west of Hot Springs-Grasmere road, in east side of ravine; stake.....	3,642.40
Hot Springs, 9.8 miles south of, on summit on north edge of big sagebrush flat east of Hot Creek canyon, 8 feet east of center of Hot Springs-Grasmere road; standard bench-mark post stamped "3707.163".....	3,708.597
Hot Springs, 10.3 miles south of, 4 feet west of center of Hot Springs-Grasmere road; stake.....	3,728.41
Hot Springs, 11.1 miles south of, 12 feet east of center of Hot Springs-Grasmere road; stake.....	3,744.79
Hot Springs, 11.6 miles south of, 15 feet east of center of Hot Springs-Grasmere road, in bare spots; stake.....	3,753.54
Hot Springs, 12.4 miles south of, 5 feet east of center of Hot Springs-Grasmere road; stake.....	3,787.33
Hot Springs, 12.9 miles south of, 12 feet east of center of Hot Springs-Grasmere road; stake.....	3,810.49
Hot Springs, 13.3 miles south of, 0.25 mile north of road crossing Miller Gulch immediately below, 2 miles southwest of prominent rocky bluff with signal, east of Hot Creek canyon, on south rim of big sagebrush flat, 8 feet east of Hot Springs-Grasmere road; standard bench-mark post stamped "3813.977".....	3,815.430
Hot Springs, 13.6 miles south of, 84 feet east of center of Hot Springs-Grasmere road, on edge of rim; top of marked rock.....	3,750.50
Hot Springs, 14 miles south of, 100 feet from lone boulder west of road, 50 feet west of center of Hot Springs-Grasmere road; stake.....	3,697.10

	Feet.
Hot Springs, 14.5 miles south of, 15 feet east of center of Hot Springs-Grasmere road; stake.....	3, 725. 06
Hot Springs, 15.1 miles south of, 50 feet east of center of Hot Springs-Grasmere road; stake.....	3, 771. 01
Hot Springs, 16.1 miles south of, 8 feet east of center of Hot Springs-Grasmere road; stake.....	3, 867. 00
Hot Springs, 16.7 miles south of, 20 feet east of center of Hot Springs-Grasmere road; stake.....	3, 909. 22
Hot Springs, 17 miles south of, in saddle between two ridges 800 feet apart, 1,000 feet north of summit in road, 6 feet west of center of Hot Springs-Grasmere road; standard bench-mark post stamped "3928.768".....	3, 930. 240
Hot Springs, 17.2 miles south of; top of marked rock.....	3, 933. 10
Hot Springs, 17.8 miles south of, 10 feet east of center of Hot Springs-Grasmere road, on side hill; stake.....	3, 964. 43
Hot Springs, 18.1 miles south of, 50 feet west of center of Hot Springs-Grasmere road, in ravine; stake.....	3, 993. 92
Hot Springs, 18.3 miles south of, on north edge of small flat, 3 feet east of center of Hot Springs-Grasmere road; stake.....	4, 057. 17
Hot Springs, 18.8 miles south of, 125 feet east of center of road, on south edge of small flat; stake.....	4, 103. 85
Hot Springs, 19.2 miles south of, 1, 000 feet south of creek, 6 feet west of center of Hot Springs-Grasmere road; stake.....	4, 062. 28
Hot Springs, 19.9 miles south of, 15 feet west of center of Hot Springs-Grasmere road; stake.....	4, 097. 94
Hot Springs, 20.4 miles south of, 100 feet southwest of rocky cliff with many small caves in it, 50 feet north of road and creek crossing, 6 feet west of center of Hot Springs-Grasmere road; standard bench-mark post stamped "4126.445".....	4, 127. 934
Hot Springs, 20.9 miles south of, 12 feet east of center of Hot Springs-Grasmere road; stake.....	4, 161. 82
Hot Springs, 21.6 miles south of, 25 feet north of center of Hot Springs-Grasmere road; stake.....	4, 212. 00
Hot Springs, 22 miles south of, 15 feet south of center of Hot Springs-Grasmere road; stake.....	4, 269. 70
Hot Springs, 23 miles south of, 50 feet north of center of Hot Springs-Grasmere road; stake.....	4, 309. 16
Hot Springs, 23.7 miles south of, 7 feet south of center of Hot Springs-Grasmere road; stake.....	4, 380. 16
Hot Springs, 23.9 miles south of; top of marked rock.....	4, 476. 06

## TINDALL QUADRANGLE.

[Latitude 42°-42° 30'; longitude 115° 30'-116°.]

From point near Blackstone's ranch south and west along highway to point 6 miles southwest of Green's ranch (unchecked spur line, elevations unreliable).

Hot Springs, 24.3 miles south of, on west edge of high hill, 2.5 miles west of prominent rocky butte, east of road at turn in road to north, at summit in road, 6 feet north of center of Hot Springs-Grasmere road; standard bench-mark post stamped "4546".....	4, 546. 625
Grasmere, 13.4 miles north of, on small rise, 4 feet south of center of Hot Springs-Grasmere road; stake.....	4, 524. 05
Grasmere, 12.7 miles north of, on east edge of small hill, 10 feet north of center of Hot Springs-Grasmere road; top of marked rock.....	4, 555. 70

	Feet.
Grasmere, 12.1 miles north of, 5 feet south of center of Hot Springs-Grasmere road; stake.....	4, 633. 82
Grasmere, 11.3 miles north of, 800 feet east of telephone line, 5 feet north of center of Hot Springs-Grasmere road; stake.....	4, 708. 19
Grasmere, 10.9 miles north of, 5 feet south of old road on hill; top of marked rock.....	4, 816. 41
Grasmere, 10.2 miles north of, on north edge of small hill, 10 feet east of center of road; top of marked rock.....	4, 847. 69
Grasmere, 9.7 miles north of, 6 feet east of center of Hot Springs-Grasmere road; stake.....	4, 891. 50
Grasmere, 9.5 miles north of, on first hill three-eighths of a mile northeast of Blackstone's ranch, 800 feet west of telephone line, 15 feet west of Hot Springs-Grasmere road, in lava rock; standard aluminum bench-mark tablet stamped "4860".....	4, 860. 567
Grasmere, 9.4 miles north of; top of marked rock.....	4, 817. 44
Grasmere, 8.7 miles north of, 300 feet east of fence, 800 feet south of house, in field of Blackstone's ranch; stake.....	4, 772. 25
Grasmere, 8.2 miles north of, in center of road; top of marked rock.....	4, 812. 49
Grasmere, 7.2 miles north of, 800 feet west of road, 8 feet southeast of telephone pole; stake.....	4, 843. 18
Grasmere, 6.5 miles north of, 200 feet north of center of road, on side hill; stake.....	4, 889. 58
Grasmere, 6.1 miles north of, 6 feet north of center of road; top of marked stone.....	4, 937. 37
Grasmere, 5.8 miles north of, 3 miles southwest of Blackstone's ranch, 0.25 mile north of telephone line, on top of rocky hogback, 10 feet south of center of Hot Springs-Grasmere road; standard bench-mark post stamped "4963".....	4, 963. 719
Grasmere, 5.2 miles north of, 15 feet south of center of Hot Springs-Grasmere road; stake.....	4, 982. 10
Grasmere, 4.7 miles north of, in center of Hot Springs-Grasmere road; top of marked rock.....	5, 002. 28
Grasmere, 4.3 miles north of, 15 feet south of center of Hot Springs-Grasmere road; top of marked rock.....	5, 055. 25
Grasmere, 4.1 miles north of, center of Hot Springs-Grasmere road; top of marked rock.....	5, 046. 25
Grasmere, 3.6 miles north of, center of Hot Springs-Grasmere road; top of marked rock.....	5, 068. 05
Grasmere, 2.9 miles north of, 4 feet south of center of Hot Springs-Grasmere road; top of marked rock.....	5, 117. 27
Grasmere, 2.6 miles north of, 15 feet south of Hot Springs-Grasmere road, 200 feet west of dry creek; stake.....	5, 112. 94
Grasmere, 2.1 miles north of, 6 feet north of center of Hot Springs-Grasmere road; stake.....	5, 122. 33
Grasmere, Mercantile Co. store, 1.9 miles north of, in sagebrush flat, 1.5 miles north of telephone line, 6 feet south of center of Hot Springs-Grasmere road; standard bench-mark post stamped "5125".....	5, 126. 037
Grasmere, 1.3 miles north of, on east slope of small hill, in center of Hot Springs-Grasmere road; top of marked rock.....	5, 171. 90
Grasmere, 0.6 mile north of, 75 feet east of center of Hot Springs-Grasmere road; top of marked rock.....	5, 220. 54
Grasmere, 250 feet west of south reservoir, 8 feet west of center of Grasmere-Riddle road; stake.....	5, 225. 87

	Feet.
Grasmere, 0.6 mile southwest of, in center of Grasmere-Riddle road; top of marked rock.....	5, 254. 01
Grasmere, 1.1 miles southwest of, 4 feet east of center of Grasmere-Riddle road; stake.....	5, 283. 50
Grasmere, 1.6 miles southwest of, 4 feet north of center of Grasmere-Riddle road; stake.....	5, 308. 14
Grasmere, 2.1 miles southwest of, 40 feet west of Green and Iron's mail post, 6 feet south of center of Grasmere-Riddle road; stake.....	5, 353. 90
Grasmere, 2.3 miles southwest of, 15 feet north of center of Grasmere-Riddle road; stake.....	5, 378. 63
Grasmere, 2.5 miles southwest of, 0.5 mile east of mouth of Knit Creek, 0.25 mile northwest of Green's ranch, three-eighths of a mile west of Iron's ranch, 400 feet south of telephone line, on small ridge, 6 feet south of center of Grasmere-Riddle road; standard bench-mark post stamped "5396".....	5, 396. 640
Grasmere, 3.2 miles southwest of, in irrigation ditch, 10 feet north of road; stake.....	5, 471. 90
Grasmere, 3.7 miles southwest of, 30 feet north of center of Grasmere-Riddle road; stake.....	5, 566. 64
Grasmere, 4 miles southwest of, in center of road and creek; top of rock..	5, 660. 66
Grasmere, 4.4 miles southwest of, 600 feet north of telephone line, 18 feet east of center of Grasmere-Riddle road; stake.....	5, 742. 06
Grasmere, 4.8 miles southwest of, 100 feet north of telephone line, 8 feet north of center of road; stake.....	5, 846. 29
Grasmere, 5.8 miles southwest of, 3 feet west of center of Grasmere-Riddle road, on hillside; top of marked rock.....	5, 823. 66
Grasmere, 6.5 miles southwest of, 1,000 feet northeast of conical hill with small monument on top, 300 feet north of telephone line, 10 feet south of Grasmere-Riddle road, on west slope of second rise from summit, 1 foot above ground, in rock; aluminum tablet stamped "5783".....	5, 783. 414
Grasmere, 6.9 miles southwest of, 4 feet west of center of Grasmere-Riddle road; stake.....	5, 767. 17
Grasmere, 7.2 miles southwest of, 400 feet north of Rattlesnake Creek, 10 feet west of center of Grasmere-Riddle road; stake.....	5, 775. 26
Grasmere, 7.6 miles southwest of, 12 feet east of ditch in "saddle," 5 feet west of center of road; top of rock.....	5, 776. 53
Grasmere, 8.2 miles southwest of, 100 feet south of road and ditch crossing, 12 feet west of center of Grasmere-Riddle road; stake.....	5, 784. 26
Grasmere, 8.8 miles southwest of, on south rim of "saddle," 50 feet west of road; top of rock.....	5, 797. 00
Grasmere, 9.5 miles southwest of, 50 feet south of creek, 18 feet north of road; stake.....	5, 705. 92
Grasmere, 9.9 miles southwest of, 225 feet west of junction of roads, 8 feet south of old road; stake.....	5, 733. 94

## RIDDLE QUADRANGLE.

[Latitude 42°-42° 30'; longitude 115° 30'-116°.]

From point 6 miles southwest of Green's ranch along highway southwest to Riddle, thence south to Owyhee, Nev. (unchecked spur line, elevations unreliable).

Grasmere, 10.6 miles southwest of, 3 feet from southeast corner of house on ranch of William Strickland; standard bench-mark post stamped "5674".	5, 675. 237
Grasmere, 11 miles southwest of, in center of Grasmere-Riddle road; top of rock.....	5, 728. 38

	Feet.
Grasmere, 11.3 miles southwest of, in center of Grasmere-Riddle road; top of rock.....	5, 696. 96
Grasmere, 12 miles southwest of, 5 feet south of center of Grasmere-Riddle road; stake.....	5, 717. 52
Grasmere, 12.5 miles southwest of, 5 feet south of center of Grasmere-Riddle road; stake.....	5, 658. 89
Grasmere, 12.9 miles southwest of, 6 feet north of center of road and 600 feet east of spring; top of rock.....	5, 598. 44
Grasmere, 13.6 miles southwest of, 15 feet south of center of Grasmere-Riddle road; top of rock.....	5, 558. 07
Grasmere, 14.1 miles southwest of, in center of Grasmere-Riddle road; top of rock.....	5, 520. 25
Riddle, 3 miles north of, on south slope of second rocky hill north of Frank Riddle's, by rock monument, 20 feet east of center of Grasmere-Riddle road; standard aluminum tablet stamped "5479".....	5, 479. 561
Riddle, 2.6 miles north of, 30 feet east of center of Grasmere-Riddle road; top of rock.....	5, 445. 32
Riddle, 2.2 miles north of, 4 feet west of center of Grasmere-Riddle road; stake.....	5, 385. 45
Riddle, 1.2 miles north of, 25 feet west of center of Grasmere-Riddle road; stake.....	5, 397. 82
Riddle, 0.7 mile north of, 8 feet east of center of Grasmere-Riddle road; stake.....	5, 385. 37
Riddle, 800 feet north of Frank Riddle's house, 8 feet west of road; stake..	5, 369. 24
Riddle, 0.6 mile south of, 400 feet east of house. 4 feet inside of northeast corner of tenth fence post at ranch of R. B. Stone; standard bench-mark post stamped "5373".....	5, 373. 981
Riddle, 1.4 miles south of, 6 feet west of center of Riddle-Owyhee road; stake.....	5, 361. 89
Riddle, 2 miles south of, 0.25 mile west of Avants's ranch house, in grass flat; stake.....	5, 344. 71
Riddle, 2.8 miles south of, 30 feet west on rocky point at turn in Riddle-Owyhee road; stake.....	5, 319. 20
Riddle, 3.3 miles south of, 5 feet west of center of Riddle-Owyhee road; stake.....	5, 313. 20
Riddle, 3.8 miles south of, 2.5 miles north of Indian ranch on Papoose Creek, 50 feet west of small hill covered with loose rock, 6 feet east of center of Owyhee-Riddle road; standard bench-mark post stamped "5307".....	5, 308. 221
Riddle, 4.3 miles south of, 10 feet west of center of Owyhee-Riddle road; stake.....	5, 303. 08
Riddle, 5.6 miles south of, 6 feet east of center of Owyhee-Riddle road; stake.....	5, 302. 73
Riddle, 6.2 miles south of, midway between roads; stake.....	5, 304. 23
Riddle, 6.8 miles south of, 20 feet east of center of Owyhee-Riddle road; stake.....	5, 307. 58
Riddle, 7.6 miles south of, 1 mile south of Papoose Creek, 600 feet north of two rocky points, 300 feet east of road, 200 feet northeast of drain, 4 feet north of northwest corner of cabin of Charley Damon; standard bench-mark post stamped "5317".....	5, 317. 852
Riddle, 7.8 miles south of, 150 yards northwest of rocky point, 5 feet east of road, under rock mound; stake.....	5, 302. 34
Riddle, 8.3 miles south of, west side of Owyhee-Riddle road; stake (fence post at northwest corner of marsh has same elevation).....	5, 300. 26

	Feet.
Riddle, 8.8 miles south of, 40 feet east of fence corner, south end of marsh where road comes to bluff; stake marked by mound of stone.....	5, 303. 87
Riddle, 9.2 miles south of, 500 feet north of spring branch, west side of Owyhee-Riddle road; stake.....	5, 323. 58
Riddle, 9.8 miles south of, in old lake bed, and same elevation.....	5, 309. 93
Riddle, 10.3 miles south of, 300 feet a little south of east of small cabin in junction of roads, 50 feet north of small stream from ravine, in lava ridge; standard bench-mark post.....	5, 316. 370
Riddle, 10.6 miles south of, in center of Owyhee-Riddle road; spike.....	5, 318. 03
Riddle, 11 miles south of; bed of lake.....	5, 310
Riddle, 11.5 miles south of, east side of Owyhee-Riddle road, east side of grass bunch; stake.....	5, 313. 07
Riddle, 12.1 miles south of, east of center of Owyhee-Riddle road; stake..	5, 327. 85
Riddle, 12.5 miles south of, east of center of Owyhee-Riddle road; stake..	5, 338. 13
Riddle, 13 miles south of, 100 feet north of summit in Owyhee-Riddle road, 4 feet east of center; stake.....	5, 330. 63
Riddle, 13.6 miles south of, 36 feet east of road, on low summit, driven horizontally in telephone pole; spike.....	5, 347. 94
Riddle, 14.2 miles south of, 4.5 miles north of Owyhee, Nev., 100 yards south of marsh, 10 feet east of southeast corner of Dick Caskey's cabin; standard bench-mark post stamped "5346".....	5, 347. 003

**Along Idaho-Nevada State line and north and east around T. 16 S., R. 2 E. (elevations unreliable).**

Nevada-Idaho boundary, 116-mile corner on; ground elevation.....	5, 879. 1
Stage line, east slope of rim on; peg.....	5, 826. 33
State line, 300 feet north of, on center swell between two rims; peg.....	5, 729. 15
Nevada-Idaho boundary, 115-mile corner on, on west slope of rim, on same bend and 8 chains north; stake.....	5, 792. 18
Nevada-Idaho boundary, 115-mile corner, 15 chains east of, in center of ridge, 30 feet north of township corner on State line for Idaho subdivision, in lava rock 2 by 2 feet and 6 inches above ground; bottom of square hole.....	5, 910. 05
T. 16 S., R. 1 E., NE. $\frac{1}{4}$ sec. 36, 300 feet east of low summit bearing north and south, 1,200 feet west of vertical rock cliff bearing north and south, 2 feet south of mound of stone, in lava rock 24 by 18 inches and 3 inches above ground; cross cut.....	5, 828. 40
T. 16 S., Rs. 1 and 2 E., about 8 chains east of the quarter corner of secs. 25 and 30, in low saddle bearing N. 15° W. and S. 15° E., about 1 mile east of old lake bed and 1,000 feet west of rim rocks, 700 feet west of low swale, bearing S. 15° E., in lava rock 18 by 18 inches and 9 inches above ground; cross cut.....	5, 688. 69
T. 16 S., R. 2 E., W. $\frac{1}{4}$ sec. 8, 300 feet west of large gulch bearing S. 20° E., 100 feet east and 75 feet below rim rocks bearing north and south, 20 feet east of large pile of lava rocks, on highest point of conical lava rock 3 feet in diameter at base and 3 feet high; square hole.....	5, 551. 19
T. 16 S., R. 2 E., SW. $\frac{1}{4}$ sec. 7, 100 feet south of road, 300 feet N. 45° E. of large pile of lava rocks on east slope of hill, in lava rock 24 by 12 inches and 12 inches above ground; square cut.....	5, 473. 01
T. 16 S., R. 2 E., SW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 6, on wire fence line, 60 feet east of west end of fence, 200 feet east of rim rocks, about 20 chains S. 45° W. of Indian cabin, 2 feet east of mound of stone, in lava rock 24 by 12 inches and 3 inches above ground; cross.....	5, 390. 83

Feet.

T. 16 S., R. 2 E., in north part of NW. $\frac{1}{4}$ SW. $\frac{1}{4}$ sec. 6, 15 chains south of Indian cabin and 15 chains west of wire fence, 18 chains east of rim rocks bearing north and south 1 chain south of large mass of slide rock, in low swale bearing east, in lava rock 24 by 36 inches and 6 inches above ground; cross cut.....	5, 374. 53
Tps. 15 and 16 S., Rs. 1 and 2 E., on township corner, about 10 chains east of rim rocks bearing north and south; standard 3-inch iron post stamped "5400".....	5, 401. 021
Tps. 15 and 16 S., R. 2 E., on township line between, in west branch of Owyhee River; water level.....	5, 268. 4
Tps. 15 and 16 S., R. 2 E., sixteenth corner No. 2 of secs. 6 and 31; top of iron post.....	5, 270. 46
Owyhee River, second branch of; water level, July 19, 1912.....	5, 266. 6
Tps. 15 and 16 S., R. 2 E., sixteenth corner No. 1 of secs. 6 and 31; top of post.....	5, 272. 16
Owyhee River, east branch of; water level July 19, 1912.....	5, 265. 9
Tps. 15 and 16 S., R. 2 E., corner of secs. 5, 6, 31, and 32; top of post....	5, 273. 73
Tps. 15 and 16 S., R. 2 E., sixteenth corner No. 2 of secs. 5 and 32; top of post.....	5, 274. 14
Tps. 15 and 16 S., R. 2 E., quarter corner of secs. 5 and 32; top of post....	5, 332. 68
Tps. 15 and 16 S., R. 2 E., corner of secs. 4, 5, 32, and 33; top of post....	5, 346. 91
Tps. 15 and 16 S., R. 2 E., quarter corner of secs. 4 and 33; top of post....	5, 370. 726
Tps. 15 and 16 S., R. 2 E., 3 chains north and 18 chains east of quarter corner of secs. 4 and 33, in wash bearing S. 30° W., in black-lava rock 24 by 20 inches and 6 inches above ground; cross cut.....	5, 414. 250
Tps. 15 and 16 S., R. 2 E., corner of secs. 3, 4, 33, and 34; top of iron post..	5, 461. 87
Tps. 15 and 16 S., R. 2 E., quarter corner of secs. 3 and 34; top of iron post.....	5, 416. 90
T. 16 S., R. 2 E., NE. $\frac{1}{4}$ NE. $\frac{1}{4}$ sec. 3, on township line, at foot of descent, 200 feet west of road, in lava rock 15 by 30 inches and 10 inches above ground; cross cut.....	5, 341. 18
Tps. 15 and 16 S., R. 2 E., corner of secs. 2, 3, 34, and 35; top of iron post.....	5, 298. 33
Tps. 15 and 16 S., R. 2 E., quarter corner of secs. 2 and 35; top of iron post.....	5, 296. 46
Tps. 15 and 16 S., R. 2 E., corner of secs. 1, 2, 35, and 36; top of iron post.....	5, 296. 32
Tps. 15 and 16 S., R. 2 E., quarter corner of secs. 1 and 36; top of iron post.....	5, 317. 37
Tps. 15 and 16 S., Rs. 2 and 3 E., corner of; top of standard 3-inch iron post stamped "5304.0".....	5, 305. 136



## APPENDIX A.

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

American Falls, Birch Creek, Bisuka, Boise, DuBois, Glenns Ferry, Gooding, Kimama, Market Lake, Malad City, Mink Creek, Monida, Mountain Home, Nampa, Pocatello, Shelley, Twin Falls, Wapi, and Weiser quadrangles.

ADA, BANNOCK, BINGHAM, CANYON, ELMORE, FREMONT, LINCOLN, ONEIDA, AND WASHINGTON 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 Survey. The bench marks were established by the Coast and Geodetic Survey and were included in its 1912 adjustment. The elevations are likely to be changed but slightly by any future adjustment.

#### MINK CREEK QUADRANGLE.

[Latitude 42°-42° 30'; longitude 111° 30'-112°.]

From Idaho-Utah State line north along Oregon Short Line R. R. to point near Oxford.	Feet.
Weston, 100 feet west of tracks, 400 feet north of road leading to town; bottom of square hole in top of sandstone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. A).....	4,604.574
Dayton, in northwest corner of a plat of ground adjacent to station sign and mail stand, 10 feet east of side track and nearly opposite first telegraph pole north of milepole 71, 100 feet east of whistle post; bottom of square hole in top of sandstone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. B).....	4,744.764
Garner, in foundation of water tank, in northernmost of two foundation stones parallel to tracks; square cut (C. & G. S. b. m. C).....	4,750.853
Garner, 135 paces west of tracks, opposite station sign, 10 feet from wire fence; bottom of square hole in top of sandstone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. D).....	4,746.044
Oxford, in yard of an abandoned creamery, 12 feet south of gate, 30 paces east of main tracks; bottom of square hole in top of sandstone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. E).....	4,747.976

#### MALAD CITY QUADRANGLE.

[Latitude 42°-42° 30'; longitude 112°-112° 30'.]

From point near Oxford northwest along Oregon Short Line R. R. to point near Marsh Valley.

Swan Lake, 3.7 miles north of, at milepole 88, on north side of first road crossing tracks south of the "hill" known as "Red Rock," in angle made by main right-of-way fence and roadway fence, 100 feet east of tracks, 1 foot north of white fence; bottom of square hole in top of sandstone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. F).....	4,776.821
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Feet.

Downey, in southwest corner of Commercial Hotel yard, 5 feet from south and west fences, 100 yards east of railroad station; bottom of square hole in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. G). 4, 857. 576

## POCATELLO QUADRANGLE.

[Latitude 42° 30'–43°; longitude 112°–112° 30'.]

From point near Marsh Valley north and northwest along Oregon Short Line R. R. to Pocatello.

Marsh Valley, opposite a point on tracks 150 feet north of station sign, 180 feet northwest of semaphore, 100 feet west of tracks; bottom of square in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. H)..... 4, 744. 157

McCammon, opposite a point on tracks 150 feet north of station, 20 feet southeast of third telephone pole north of schoolhouse, 225 feet west of tracks, 4 feet from fence on west side of main highway; bottom of square hole in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. I)..... 4, 754. 538

Onyx, 1 mile north of, near signboard "One mile to Onyx," west of third telegraph pole south of milepole 197, 24 feet west of right-of-way fence on west side of tracks; bottom of square hole in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. J)..... 4, 620. 171

Inkom, in foundation of water tank, in westernmost of two foundation stones parallel to tracks; square cut in southeast corner (C. & G. S. b. m. K)..... 4, 524. 683

Inkom, near first telegraph pole west of station, 50 feet south of tracks, between guy wire and main pole; bottom of square hole in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. L)..... 4, 520. 011

Portneuf, 4 feet south of telephone pole opposite mid-point between two east switches of siding, 60 feet north of tracks, 10.5 feet north of north right-of-way fence; bottom of square hole in top of sandstone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. M)..... 4, 486. 881

From Pocatello along Oregon Short Line R. R. to point near Pocatello.

Pocatello, in south end of railroad park east of track, opposite Oregon Short Line Hotel, 35 feet south of hydrant for park, 12 feet from south end fence, in line with center row of trees; bottom of square hole cut in top of stone post, marked "U. S.  $\square$  B. M." (C. & G. S. b. m. A 3)..... 4, 457. 799

Pocatello, in sloping surface of white lavatic water table of Masonic Temple, 16 inches from large side display window of hardware store on first floor of building, 12 feet from northwest corner, 18 inches above sidewalk; square hole lettered "U. S. B. M." (C. & G. S. b. m. B 3)..... 4, 463. 009

Pocatello, on south end of stone schoolhouse west of Oregon Short Line R. R. tracks, in sandstone water table, 6 feet from ground, 12 feet from southeast corner; copper bolt marked "U. S. B. M." (C. & G. S. b. m. C 3)..... 4, 473. 797

Pocatello, on West Center Street, on rock sill of entrance to Pioneer Block (city bench mark)..... 4, 462. 932

Pocatello, in lava foundation of county courthouse, 30 inches east of northwest corner, opposite corner of Fifth and Clark streets, 4 inches above surface of ground; square hole lettered "U. S.  $\square$  B. M." (C. & G. S. b. m. D 3)..... 4, 464. 474

Pocatello, in southwest corner of public school building east of Oregon Short Line R. R. tracks, 5 feet east of southwest corner, 5 feet 6 inches from ground, opposite corner of Sixth Avenue and Clark Street; copper bolt marked "U. S. B. M." (C. & G. S. b. m. E 3)..... 4, 468. 584

	Feet.
Pocatello, 4 miles west of, on top of east retaining wall on north side of concrete abutment of deck plate-girder bridge, the first bridge with concrete abutment west of Pocatello, 8 inches from west edge of wall and 1 foot from north end; bottom of square hole, lettered "U. S. $\square$ B. M." (C. & G. S. b. m. F 3).....	4, 409. 520

**In vicinity of Pocatello.**

Pocatello, 4.5 miles north of, on right of way, 6 telegraph poles south of mile-pole 139, at east end of stone culvert, on north abutment, in middle of extreme coping; bottom of square hole marked "U. S." (C. & G. S. b. m. L 6).....	4, 467. 393
Ross Fork, 2.2 miles due south of, opposite milepole 143½, 45 meters west of Oregon Short Line R. R. right of way, at angle of telephone line, in center of four braced poles No. 358; 3-inch red metal cap (C. & G. S. b. m. "M <sub>6</sub> ").....	4, 468. 387

**SHELLEY QUADRANGLE.**

[Latitude 43°-43° 30'; longitude 112°-112° 30'.]

**From Ross Fork north along Oregon Short Line R. R. to Idaho Falls.**

Ross Fork, about 180 meters east of railroad station, in south face of Government warehouse, at southwest corner, 1½ meters above ground; red metal disk (C. & G. S. b. m. "N <sub>6</sub> ").....	4, 458. 036
Ross Fork, at road crossing, about 100 meters north of railroad station, 45 meters west of track, on land of Fort Hall Indian Reservation, in top of stone post; bottom of hole (C. & G. S. b. m. "O <sub>6</sub> ").....	4, 443. 410
Gibson, on railroad right of way, at mile pole 151, 15 meters northwest of signboard "Gibson"; 3-inch red metal cap (C. & G. S. b. m. "P <sub>6</sub> ").....	4, 463. 541
Blackfoot, 2½ miles south of, at road crossing, 12 telegraph poles north of milepole 155, 0.5 meter west of railroad right of way, in southeast corner of public road junction; 3-inch red metal cap (C. & G. S. b. m. "Q <sub>6</sub> ").....	4, 482. 307
Blackfoot, 1 mile south of, on southwest pedestal of girder bridge 619; top of southwest bolt (C. & G. S. b. m. "O. S. L. 4").....	4, 489. 204
Blackfoot, railroad water tank, on northeast corner of northeasterly foundation stone, in horizontal surface; bottom of hole (C. & G. S. b. m. "R <sub>6</sub> ")..	4, 500. 073
Blackfoot, at corner of East Main and Judicial streets, in northwest corner of Bingham County courthouse grounds, 3 meters from west fence, in top of stone post; bottom of hole (C. & G. S. b. m. "S <sub>6</sub> ").....	4, 498. 387
Blackfoot, on north side of Bridge Street, at southeast corner of Odd Fellows' Hall, on northeast corner of projecting lava foundation, in horizontal surface; bottom of hole (C. & G. S. b. m. "T <sub>6</sub> ").....	4, 498. 016
Blackfoot, on West Main Street in the D. W. Standrod & Co.'s bank building, on vertical surface of red sandstone window sill, at north end; red metal disk (C. & G. S. b. m. "U <sub>6</sub> ").....	4, 502. 012
Wapello, 0.5 mile south of, on railroad right of way, distance of 2½ telegraph poles north of milepole 163½, 15 meters west of track at southwest corner of road crossing; 3-inch red metal cap on iron post (C. & G. S. b. m. "V <sub>6</sub> ")..	4, 537. 281
Wapello, at road crossing, 35 meters west of signboard "Wapello," in range with telephone poles, in top of stone post; bottom of hole (C. & G. S. b. m. "W <sub>6</sub> ").....	4, 541. 871
Wapello, 2 miles north of, on railroad right of way, 45 meters northwest of milepole 166, at northwest corner of road crossing; 3-inch red metal cap (C. & G. S. b. m. "X <sub>6</sub> ").....	4, 560. 086
Firth, 30 meters northwest of signboard "Firth," on north side of public road, in range with telephone poles; 3-inch red metal cap (C. & G. S. b. m. "Y <sub>6</sub> ").....	4, 564. 427

Feet.

Firth, 0.25 mile northeast of signboard "Firth," on base of westerly central iron column of railroad water tank; surface within an outlined square (C. & G. S. b. m. "Z <sub>6</sub> ").....	4, 570. 759
Monroe, 4.5 telegraph poles north of signboard "Monroe," at road crossing, in northeast corner of junction of two highways, $\frac{3}{4}$ meter west of railroad right of way; 3-inch red metal cap (C. & G. S. b. m. "A <sub>7</sub> ").....	4, 605. 588
Monroe, 1.5 miles north of, 3 telegraph poles south of milepole 174 of railroad, near edge of horizontal surface of north abutment of a stone culvert, at west end; bottom of hole in horizontal surface (C. & G. S. b. m. "B <sub>7</sub> ")..	4, 610. 102
Shelley, on Main Street, opposite railroad station, in front face at northeast corner of Shelley Banking Co.'s building, 1 meter above walk; red metal disk (C. & G. S. b. m. "C <sub>7</sub> ").....	4, 629. 331
Shelley, in center of southeast section of public-school grounds, 25 meters southeast of main entrance to school building; 3-inch red metal cap (C. & G. S. b. m. "D <sub>7</sub> ").....	4, 626. 713
Idaho Falls, 3.8 miles south of, on railroad right of way, at road crossing, 5 telegraph poles north of milepole 180, 15 meters west of track, in top of stone post; bottom of hole (C. & G. S. b. m. "E <sub>7</sub> ").....	4, 665. 680
Idaho Falls, on north column on west side of railroad water tank, on pin through brace; highest point of nut (C. & G. S. b. m. "O. S. L. 7").....	4, 705. 141
Idaho Falls, at northeast corner of Water Avenue and Walnut Street, in high-school building, on east side of main entrance, in vertical surface of stone, 1 meter above ground; red metal disk (C. & G. S. b. m. "F <sub>7</sub> ")....	4, 709. 767
Idaho Falls, at corner of Broadway and Sharp Street, at northwest corner of building owned by Crow & Changnon, on northwest corner of projecting stone foundation; surface within an outlined square (C. & G. S. b. m. "G <sub>7</sub> ").....	4, 703. 855
Idaho Falls, at east door of Clark-Fanning Building, in east end of stone sill; cross cut lettered "B. M." (C. & G. S. b. m. "City").....	4, 705. 912
Idaho Falls, in building used as post office, in front face, at southeast corner, $1\frac{1}{2}$ meters above walk; copper bolt (C. & G. S. b. m. "H <sub>7</sub> ").....	4, 708. 140
Idaho Falls, on east truss of south span of bridge 623 over Snake River; east end of south end pin. (These directions are based on the assumption that the railroad line toward Butte runs northward.) (C. & G. S. b. m. O. S. L. 6).....	4, 702. 717

## MARKET LAKE QUADRANGLE.

[Latitude 43° 30'–44°; longitude 112°–112° 30'.]

## From Idaho Falls north along Oregon Short Line R. R. to Camas.

Payne, 2.75 miles south of, on railroad right of way, 3 $\frac{1}{2}$ telegraph poles south of milepole 188, at west end of south abutment of trestle, in center of horizontal surface of second step from top; bottom of hole (C. & G. S. b. m. "I <sub>7</sub> ").....	4, 721. 975
Payne, 1.5 miles northwest of, at Payne post office, on River Lea ranch owned by C. C. Wilson, opposite tenth telegraph pole southeast of milepole 192, in north corner of yard; 3-inch red metal cap on iron post (C. & G. S. b. m. "J <sub>7</sub> ").....	4, 747. 897
Bassett, 0.4 mile northwest of, at north corner of road crossing, 7 telegraph poles northwest of milepole 196, in north corner of yard; 3-inch red metal cap on iron post (C. & G. S. b. m. "K <sub>7</sub> ").....	4, 768. 517
Market Lake, 0.25 mile west of railroad, at main entrance to public-school building, in center of horizontal surface of top stone step; red metal disk (C. & G. S. b. m. "L <sub>7</sub> ").....	4, 775. 318

Feet.

Market Lake, on railroad water tank, 35 meters north of station, in center on west side of slanting surface of northwest foundation; bottom of hole in horizontal surface (C. & G. S. b. m. "M <sub>7</sub> ").....	4, 777. 162
Market Lake, 0.8 mile north of, 3 telegraph poles north of milepole 202, south concrete abutment of railroad steel trestle 627, in center of highest surface on west end; surface within an outlined square (C. & G. S. b. m. "N <sub>7</sub> ").....	4, 779. 997
Market Lake, 4.25 miles north of, on railroad right of way, at first telegraph pole south of milepole 205½, 17 meters east of track, on highest point of large lava rock projecting 3 meters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. "O <sub>7</sub> ").....	4, 794. 616
Hawgood, near, in mile marker 209; spike (O. S. L. 8).....	4, 820. 292
Hawgood, 1½ miles southeast of, 15 meters northeast of milepole 210, 0.5 meter outside railroad right-of-way fence, in top of stone post; bottom of hole (C. & G. S. b. m. "P <sub>7</sub> ").....	4, 842. 024
Hawgood, on railroad right of way, 23 meters east of signboard "Hawgood," 14 meters northeast of track, in range with telegraph poles, in top of stone post; bottom of hole (C. & G. S. b. m. "Q <sub>7</sub> ").....	4, 820. 177
Hamer, 25 meters southwest of signboard "Hamer," in range with telegraph poles, outside railroad right of way, in top of stone post; bottom of hole (C. & G. S. b. m. "R <sub>7</sub> ").....	4, 801. 814
Camas, 2½ miles south of, 19 meters east of milepole 220, 0.75 meter east of railroad right of way; iron cap on iron pipe (C. & G. S. b. m. "S <sub>7</sub> ")....	4, 802. 723

## DUBOIS QUADRANGLE.

[Latitude 44°-44° 30'; longitude 112°-112° 30'.]

## From Camas north along Oregon Short Line R. R. to Spencer.

Camas, on north corner of most northern foundation stone of railroad water tank, 4 meters southwest of center of track; surface within an outlined square (C. & G. S. b. m. "T <sub>7</sub> ").....	4, 817. 900
Camas, 2.25 miles north of, on railroad right of way, 4 telegraph poles south of milepole 225, on southwest corner of coping of stone culvert; bottom of hole in horizontal surface (C. & G. S. b. m. "U <sub>7</sub> ").....	4, 841. 585
Jones, 30 meters west of signboard "Jones," 0.5 meter west of railroad right of way, in top of stone post; bottom of hole (C. & G. S. b. m. "V <sub>7</sub> ")....	4, 896. 778
Jones, 1.8 miles north of, 3½ telegraph poles north of milepole 229½, at northeast corner of road crossing, 0.5 meter east of railroad right of way, on iron pipe; iron cap (C. & G. S. b. m. "W <sub>7</sub> ").....	4, 960. 072
Dubois, 95 meters south of station, opposite freight depot, in east corner of public-school grounds; bottom of hole in top of stone post (C. & G. S. b. m. "X <sub>7</sub> ").....	5, 143. 454
Dubois, 40 meters north of station, 4 meters east of center of track, northwest foundation stone of railroad water tank, in center of west side; bottom of hole in horizontal surface (C. & G. S. b. m. "Y <sub>7</sub> ").....	5, 150. 291
High Bridge, 1 mile south of, in range with telegraph poles on railroad right of way, 13 meters east of signboard "High Bridge 1 mile," ¾ meter below level of rail; 3-inch red metal cap (C. & G. S. b. m. "Z <sub>7</sub> ").....	5, 485. 242
High Bridge, ½ mile south of, 2 telegraph poles north of milepole 242, 10 meters north of southwest corner of road crossing, ¾ meter west of railroad right of way; bottom of hole in top of stone post (C. & G. S. b. m. "A <sub>8</sub> ")..	5, 521. 948
High Bridge, 0.8 mile north of signboard "High Bridge," 8½ telegraph poles north of milepole 243, on horizontal surface at north end of west coping of large railroad stone culvert, 10 meters below level of rail; red metal disk (C. & G. S. b. m. "B <sub>8</sub> ").....	5, 544. 835

	Feet.
High Bridge, on water tank; bottom sill (O. S. L. 10).....	5, 582. 279
Spencer, 2 miles south of, at China Point, 40 meters east of milepole 246, in north corner of road crossing, 30 meters northeast of railroad track; 3-inch red metal cap (C. & G. S. b. m. "C <sub>8</sub> ").....	5, 838. 555
Spencer, 65 meters southwest of railroad station, 11 meters north of north corner of public-school building, in top of stone post; bottom of hole (C. & G. S. b. m. "D <sub>8</sub> ").....	5, 883. 502
Spencer, 35 meters northeast of railroad, at west corner, in southwest face of building owned by the Spencer Harwood Co., 1 meter above walk; red metal disk (C. & G. S. b. m. "E <sub>8</sub> ").....	5, 881. 061
Spencer, 40 meters west of station, on east corner of most easterly founda- tion stone of water tank, 4 meters southwest of center of track; surface within an outlined square (O. S. L. 11).....	5, 884. 027
Spencer, 1½ miles north of, 10 telegraph poles southeast of milepole 250, on railroad right of way, southeast concrete abutment of trestle 642, in center of horizontal surface of northeast end; copper bolt (C. & G. S. b. m. "F <sub>8</sub> ").....	5, 920. 224
Spencer, 3.75 miles north of, in Beaver Canyon, at discontinued station "Beaver," about 15 meters east of track, on public highway, at north- east corner of road crossing; 3-inch red metal cap (C. & G. S. b. m. "G <sub>8</sub> ").....	6, 019. 407

**MONIDA QUADRANGLE.**

[Latitude 44° 30'–45°; longitude 112°–112° 30'.]

**Near Humphrey.**

Humphrey, 3.75 miles southeast of, at third telegraph pole south of mile- pole 253, on railroad right of way, 2½ meters from east end of south con- crete abutment of trestle 645½, 1 meter below base of rail, in horizontal surface; bottom of hole (C. & G. S. b. m. "H <sub>8</sub> ").....	6, 078. 866
Humphrey, on railroad right of way, in range with telegraph poles, at ninth pole south of station, 8 meters east of center of track; 3-inch red metal cap (C. & G. S. b. m. "I <sub>8</sub> ").....	6, 494. 003
Humphrey, 50 meters north of station, 4 meters west of center of track, on northeast corner of northeasterly foundation stone of railroad water tank, in horizontal surface; bottom of hole (C. & G. S. b. m. "J <sub>8</sub> ").....	6, 514. 656
Monida, Mont., 2.25 miles east of, in Fremont County, Idaho, 17 meters northeast of milepost 262, 0.75 meter northeast of railroad right of way; 3-inch red-metal cap on iron post (C. & G. S. b. m. "K <sub>8</sub> ").....	6, 716. 132

**AMERICAN FALLS QUADRANGLE.**

[Latitude 42° 30'–43°; longitude 112° 30'–113°.]

**From point near Pocatello along Oregon Short Line R. R. to point near American Falls.**

Michaud, 2.5 miles west of, 15 feet west of first pole east of milepole 225, at beginning of first cut west of Michaud, 45 feet south of center of track, 5 feet north of railroad fence, in line with telegraph poles; bottom of square hole in top of stone post, marked "U. S. □ B. M." (C. & G. S. b. m. G 3) ..	4, 429. 403
Bannock, 4 telegraph poles west of station sign, 25 rails east of west switch stand, 75 feet south of center of track, 25 feet south of fence; bottom of square hole in top of stone post, marked "U. S. □ B. M." (C. & G. S. b. m. H 3) ..	4, 411. 801

	Feet.
American Falls, 2.5 miles east of, between third and fourth telegraph poles east of milepole 237, 40 feet north of railroad fence, 60 feet south of center of track, 12 feet south of line of telegraph poles; bottom of square hole in top of stone post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. I 3).....	4, 385. 076
American Falls, on top of southeast corner of southeast capstone of water tank foundation (Oregon Short Line R. R. b. m.).....	4, 336. 670
American Falls, near, on bridge 217, over Snake River, on southwest corner of stone abutment at east end (Oregon Short Line R. R. b. m.)....	4, 331. 356
American Falls, 0.8 mile west of, on north side of track, on capstone of west abutment of Oregon Short Line R. R. bridge over Snake River, 10 inches from north end, 1 foot from east edge of sandstone cap; bottom of square hole, marked "U. S. $\square$ B. M." (C. & G. S. b. m. J 3).....	4, 329. 192

**WAPI QUADRANGLE.**

[Latitude 42° 30'-43°; longitude 113°-113° 30'.]

**From point near American Falls along Oregon Short Line R. R. to point near Yale.**

Napati, 0.5 mile east of, 20 feet west of milepost 247, 50 feet south of center of track, 50 feet from fence, in line with telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. K 3).....	4, 476. 959
Wapi, 3 miles east of, 150 feet north of center of track, 50 feet north of railroad fence; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. L 3).....	4, 421. 716
Wapi, foundation of tank; on southeast corner of southeast capstone (Oregon Short Line R. R. b. m.).....	4, 400. 978
Wapi, 3 miles west of, opposite west end of first curve west of Wapi, 85 feet north of center of track, 15 feet inside Oregon Short Line R. R. fence; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. M 3).....	4, 318. 641
Yale siding, 1 mile west of, 70 feet south of center of tracks, 30 feet north of railroad fence, 21 feet south of line of telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. N 3).....	4, 259. 004

**KIMAMA QUADRANGLE.**

[Latitude 42° 30'-43°; longitude 113° 30'-114°.]

**From point near Yale siding along Oregon Short Line R. R. to Senter.**

Minidoka, foundation of tank, on southeast corner of southeast capstone (Oregon Short Line R. R. b. m.).....	4, 282. 974
Minidoka, directly behind milepole 273, which is also the boundary of sects. 40 and 41, 4 telegraph poles west of office pole, 54 feet south of the pole, 100 feet south of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. O 3).....	4, 277. 698
Minidoka, 6 miles west of, 1.5 miles east of Colburn, opposite second telegraph pole west of milepole 279, 60 feet north of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. P 3),.....	4, 259. 737
Colburn, 4 miles west of, 5 miles east of Kimama, 30 feet south of milepole 284½, 85 feet south of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. Q 3).....	4, 338. 219
Kimama, foundation of water tank, on southeast corner of southeast capstone (Oregon Short Line R. R. b. m.).....	4, 273. 229

Feet.

Kimama, 10 rails east of station semaphore, 120 feet south of center of tracks, directly behind and 65 feet south of pole marking boundary line between secs. 42 and 43; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. R 3).....	4, 263. 482
Senter, 7½ poles west of milepole 296, directly north of station sign, 45 feet north of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. S 3).....	4, 216. 501

**TWIN FALLS QUADRANGLE.**

[Latitude 42° 30'–43°; longitude 114°–114° 30'.]

**From Senter along Oregon Short Line R. R. to point near Tunupa.**

Owinza, in foundation of Oregon Short Line R. R. water tank, in top of southwest corner of southeast white sandstone cap; bottom of square hole, lettered "U. S. $\square$ B. M." (C. & G. S. b. m. T 3).....	4, 205. 309
Owinza, 4 miles west of, 30 feet east of second telegraph pole west of milepole 308, 9 feet south of line of telegraph poles, 75 feet south of railroad tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. U 3).....	4, 135. 603
Dietrich, directly opposite and 54 feet south of station sign, 66 feet south of center of tracks, 15 feet south of line of telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. V 3).....	4, 071. 167
Shoshone, in sandstone capstone of foundation of Oregon Short Line R. R. water tank, in northeast corner of interior column on north side; bottom of square hole, marked "U. S. $\square$ B. M." (C. & G. S. b. m. W 3).....	3, 969. 014
Shoshone, in northwest corner of courthouse yard, in line with row of trees along west side, 50 feet south of northwest corner, 5 feet from fence inclosing yard; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. X 3).....	3, 964. 187
Shoshone, in red lavatic water table of high-school building, 5 feet east of northwest corner of building, 4 feet from ground; copper bolt marked "U. S. $\square$ B. M." (C. & G. S. b. m. Y 3).....	3, 967. 886
Tunupa, 1 mile east of, 12 feet south of milepole 330, opposite the station signal for Tunupa, 70 feet south of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. Z 3).....	3, 747. 440

**GOODING QUADRANGLE.**

[Latitude 42° 30'–43°; longitude 114° 30'–115°.]

**From point near Tunupa along Oregon Short Line R. R. to Bliss.**

Tunupa, 14 rails west of west end of siding, 11 telegraph poles east of milepole 332, on first bridge west of Tunupa, a bridge of the through plate-girder type, concretè abutments, and sandstone caps and steps, in a corner of third step on south side of west abutment; bottom of square hole, marked "U. S. $\square$ B. M." (C. & G. S. b. m. A 4).....	3, 706. 877
Gooding, 2 rails west of station sign, 10 feet east of second pole west of milepole 338, 60 feet south of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. B 4).....	3, 570. 288
Fuller, about 7 poles east of milepole 345, 60 feet south of center of tracks, 4 feet south of line of telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. $\square$ B. M." (C. & G. S. b. m. C 4).....	3, 401. 079



	Feet.
Bliss, in west end of small railroad park west of water tank, nearly opposite milepole 351, 3½ rails east of station semaphore, 20 feet north of center of main track; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. D 4).....	3,259.474

**GLENN'S FERRY QUADRANGLE.**

[Latitude 42° 30'-43°; longitude 115°-115° 30'.]

**From point near Bliss along Oregon Short Line R. R. to Medbury.**

Ticeska, 4 rails east of station sign, 45 feet east of fifth pole east of milepole 358 and third pole east of one marking the boundary line between Lincoln and Elmore counties; in line with telegraph poles, 60 feet south of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. E 4).....	3,080.066
King Hill, 3½ rails east of station sign, 10 feet east of fifth pole east of milepole 366, in line with poles, 40 feet south of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. F 4).....	2,534.969
Glenns Ferry, in center of west end of Oregon Short Line R. R. park west of station, 8 feet inside of west fence; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. G 4).....	2,558.942
Glenns Ferry, on Oregon Short Line R. R. water tank, 2 blocks south of station, about halfway to river where pumping plant is located; on northwest corner of sandstone cap of lava foundation for northwest pillar supporting the tank; bottom of square hole, marked "U. S. □ B. M." (C. & G. S. b. m. H 4).....	2,577.121
Glenns Ferry, 4.6 miles west of, about half distance of telegraph pole east of milepole 379, 60 feet north of center of tracks; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. I 4).....	2,493.581
Medbury, directly opposite the station sign, 135 feet north of center of main track, 90 feet north of line of telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. J 4).....	2,556.215

**MOUNTAIN HOME QUADRANGLE.**

[Latitude 43°-43° 30'; longitude 115° 30'-116°.]

**From Medbury along Oregon Short Line R. R. to point near Orchard.**

Chalk Spur, directly behind milepole 391, 120 feet north of center of main track, 70 feet north of center of line of telegraph poles; bottom of square hole in top of black-lava post; marked "U. S. □ B. M." (C. & G. S. b. m. K 4).....	2,886.038
Mountain Home, 6 miles east of, 33 feet west of milepole 398, which also marks the boundary of sections 58 and 59, 150 feet north of center of tracks and 54 feet north of line of telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. L 4).....	3,075.650
Mountain Home, on foundation of Oregon Short Line R. R. water tank, in southeast corner of southeast capstone, 5 inches from south and 5 inches from west side; bottom of square hole, marked "U. S. □ B. M." (C. & G. S. b. m. M 4).....	3,145.453
Mountain Home, in east end of Oregon Short Line R. R. park, about equidistant from north and south fences and about 6 feet from east fence; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. N 4).....	3,138.970

	Feet.
Mountain Home, at left-hand side of Canyon Street entrance to office of Turner Hotel, in sandstone water table, about 2½ feet above sidewalk and 8 inches from corner of stone; copper bolt marked "U. S. □ B. M." (C. & G. S. b. m. O 4).....	3, 142. 989
Mountain Home, 5.5 miles west of, 20 feet west of first pole east of milepole 409½, 60 feet north of center of tracks, in line with telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. P 4).....	3, 181. 910
Cleft, opposite station sign, one pole west of milepole 415, 120 feet south of tracks; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. Q 4).....	3, 219. 664
Orchard, 3 miles east of, on concrete culvert, 3½ poles east of milepole 422, 1 foot from retaining wall and 1 foot from edge of abutment; bottom of square hole, marked "U. S. □ B. M." (C. & G. S. b. m. R 4).....	3, 160. 062

**BISUKA QUADRANGLE.**

Latitude 43°-43° 30'; longitude 116°-116° 30'.

**From point near Orchard along Oregon Short Line R. R. to Owyhee.**

Orchard, 2.5 miles west of, 5 feet south of milepole 428, 55 feet north of center of tracks, south of Orchard Farm fence; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. S 4)...	3, 145. 196
Owyhee, 1 mile east of, 5 feet north of milepole 436, about 45 feet south of center of tracks; bottom of square hole in top of black-lava post marked "U. S. □ B. M." (C. & G. S. b. m. T 4).....	2, 992. 883
Owyhee, 0.8 mile east of, in capstone of south end of east abutment of Oregon Short Line R. R. bridge, about 14 inches from end of stone and equidistant from sides; bottom of square hole marked "U. S. □ B. M." (C. & G. S. b. m. U 4).....	2, 983. 246
Owyhee, 3 poles east of station sign, 10 feet west of milepost 437, 60 feet south of center of tracks, in line with telegraph poles; bottom of square hole in top of black-lava post, marked "U. S. □ B. M." (C. & G. S. b. m. V 4).....	2, 964. 706
Owyhee, in surface of southwest corner of capstone for southwest column supporting the Oregon Short Line R. R. water tank, 3 inches from south edge and 4 inches from west edge of stone; bottom of square hole marked "U. S. □ B. M." (C. & G. S. b. m. W 4).....	2, 965. 553

**From Owyhee to point near Mora.**

Mora, 3 miles east of, on railroad right of way, 1 telegraph pole east of milepole 442, 30 meters south of track; bottom of hole in top of limestone post lettered "U. S. □ B. M." (C. & G. S. b. m. X 4).....	2, 829. 929
Mora, directly opposite station sign, 2 poles west of milepole 445, 22 meters south of center of track, on railroad right of way; bottom of square hole in top of lava stone post (C. & G. S. b. m. Y 4).....	2, 766. 425
Mora, 1 mile west of, 8½ telegraph poles east of milepole 446, 4 meters north of track, in top of capstone of red sandstone culvert, 7.5 centimeters from north edge and 7.5 centimeters from west edge; bottom of square hole C. & G. S. b. m. Z 4).....	2, 749. 849

## NAMPA QUADRANGLE.

. [Latitude 43° 30'-44°; longitude 116° 30'-117°.]

**From point near Kuna along Oregon Short Line R. R. to point near Nyssa, Oregon.**

Feet.

Kuna, 3.5 miles northwest of, on railroad right of way, 2 poles east of milepole 452½ and about 3 meters south of center of track, in native rock of deep lava cut, 0.7 meter above ground; copper bolt (C. & G. S. b. m. C 5)...	2, 620. 627
Nampa, 4 miles southeast of, 3 poles east of milepole 455, on right of way, 27 meters south of center of track and about 0.7 meter from fence; bottom of square hole in top of sandstone post, lettered "U. S. □ B. M." (C. & G. S. b. m. D 5).....	2, 545. 184
Nampa, in west end of Dewey Palace Hotel lawn, 4.5 meters from sidewalk along west end of lawn and equidistant from walks along sides of lawn; bottom of square hole in top of lava stone post, lettered "U. S. □ B. M." (C. & G. S. b. m. E 5).....	2, 487. 634
Nampa, in west face of Citizens State Bank building (of brick), 25 centimeters from southwest corner; copper bolt (C. & G. S. b. m. F 5).....	2, 490. 566
Nampa, in north face of brick building occupied by Tuttle Mercantile Co., 0.9 meter from northeast corner of building, 1 meter above ground; copper bolt (C. & G. S. b. m. G 5).....	2, 488. 102
Nampa, in east face of brick building occupied by Leeson Furniture Co., 0.2 meter from northeast corner and 1 meter above ground; copper bolt (C. & G. S. b. m. H 5).....	2, 487. 562
Nampa, in brick station of Oregon Short Line R. R., in top of lower step at women's entrance facing track, 0.15 meter from west edge and 0.2 meter from north edge of step; bottom of square hole (C. & G. S. b. m. I 5).....	2, 484. 083
Nampa, near, opposite eighth telegraph pole west of milepole 462, 5 meters north of track, in top of red-sandstone culvert, 0.3 meter from west edge and 0.15 meter from north edge of capstone; bottom of square hole (C. & G. S. b. m. J 5).....	2, 439. 682
Nampa, 5 miles west of, at milepole 464, on railroad right of way, 18 meters south of center of track; bottom of square hole in top of sandstone post, lettered "U. S. □ B. M." (C. & G. S. b. m. K 5).....	2, 421. 876
Caldwell, 0.8 mile east of, south of track, in west abutment of bridge, 0.3 meter from east edge and 0.3 meter from south edge; bottom of square hole cut in stone, lettered "U. S. □ B. M." (C. & G. S. b. m. L 5).....	2, 380. 500
Caldwell, in brick building occupied by Baker Brothers' grocery, in face of west wall, 6 meters from northwest corner of building, 1.2 meters above ground; copper bolt (C. & G. S. b. m. M 5).....	2, 375. 087
Caldwell, in brick building occupied by the Steunenberg Banking and Trust Co., in face of west wall, about half-way between the northwest and southwest corners of building, 1.2 meters above sidewalk; copper bolt (C. & G. S. b. m. N 5).....	2, 372. 980
Caldwell, in brick building occupied by the Saratoga Hotel, in limestone step of first door south of northeast corner of building, 0.15 meter from east edge and 0.1 meter from south edge; bottom of square hole (C. & G. S. b. m. O 5).....	2, 368. 901
Caldwell, in brick building occupied by the First National Bank, in east wall of building, 0.6 meter from southeast corner and 1.2 meters from the ground; copper bolt (C. & G. S. b. m. P 5).....	2, 372. 833
Caldwell, 1 mile west of, 10 meters east of milepole 469, on railroad bridge over Boise River, south of track, in top of west abutment, 0.2 meter from east edge and 0.2 meter from south edge; bottom of square hole (C. & G. S. b. m. Q 5).....	2, 353. 662

Feet.

Caldwell, 2.5 miles west of, 5 poles west of milepole 470½, south of track, in offset of west abutment (of concrete) of bridge 312, 0.3 meter from south edge and 0.3 meter from east edge of abutment; bottom of square hole (C. & G. S. b. m. R 5).....	2, 334. 320
Notus, near, 3¼ poles west of milepole 475, in top of west wall of concrete culvert, 8 meters south of track, 0.1 meter from east edge and 0.1 meter from south edge; bottom of square hole (C. & G. S. b. m. S 5).....	2, 308. 731
Notus, 2 miles west of, 1 pole west of milepole 477, 45 meters north of track, in southwest corner of ranch of Asa Anderson, 2.4 meters east of telephone pole, 6 meters north of road; bottom of square hole in top of sandstone post, lettered "U. S. □ B. M." (C. & G. S. b. m. T 5) .....	2, 290. 687
Parma, 2 miles east of, 4½ poles west of milepole 481, 6 meters north of track, in top of east wall of sandstone culvert, 0.1 meter from north edge and 0.1 meter from west edge; bottom of square hole (C. & G. S. b. m. U 5)....	2, 239. 349
Parma, near, 1.5 meters west of milepole 483, section 70, on right of way, 15 meters south of track; top of an iron rod sunk in concrete bed, projecting 5 centimeters above ground (Oregon Short Line R. R. b. m.).....	2, 223. 879
Parma, 2 miles west of, 4.5 poles east of milepole 485, in west wall of a sandstone culvert north of track, 0.2 meter from east edge and 0.2 meter from north edge; bottom of square hole (C. & G. S. b. m. V 5).....	2, 206. 908
Nyssa, 3 miles east of, 6.5 poles north of milepole 487½, on railroad right of way, 30 meters west of track, 3 meters north of road, 3 meters east of fence; bottom of square hole in top of sandstone post, lettered "U. S. □ B. M." (C. & G. S. b. m. W 5) .....	2, 202. 046
Nyssa, 1.8 miles south of, in north sandstone abutment of bridge 327 of Oregon Short Line R. R. over Boise River; in top of offset east of track, 0.1 meter from south edge and 0.1 meter from east edge; bottom of square hole (C. & G. S. b. m. X 5).....	2, 189. 829

**BOISE QUADRANGLE.**

[Latitude 43° 30'–44°; longitude 116°–116° 30'.]

**From point near Mora to point near Kuna.**

Kuna, 2 miles west of, 20 meters east of milepole 451, in an offset of the west abutment of bridge 222, south of track, 35 centimeters from east edge and 30 centimeters from south edge; bottom of square hole (C. & G. S. b. m. A 5).....	2, 644. 375
Kuna, 2.5 miles west of, 4½ poles east of milepole 451½, in right of way, 18 meters south of center of track and 1 meter south of line of telegraph poles; bottom of square hole in top of stone post (C. & G. S. b. m. B 5)..<	2, 641. 949

**WEISER QUADRANGLE.**

[Latitude 44°–44° 30'; longitude 116° 30'–117°.]

**From point near Payette along Oregon Short Line R. R. to Weiser.**

Payette, near, 1.8 miles north of Ontario, Oreg., in north abutment of bridge 335 of Oregon Short Line R. R. over Snake River, east of track in sandstone offset, 0.3 meter from south edge and 0.35 meter from east edge; bottom of square hole, lettered "U. S. □ B. M." (C. & G. S. b. m. Y 5)..<	2, 148. 246
Payette, 0.4 mile south of, in north abutment of bridge 338 of Oregon Short Line R. R. over Payette River, east of track, in sandstone offset, 0.35 meter from east edge and 0.45 meter from south edge; bottom of square hole (C. & G. S. b. m. Z 5).....	2, 144. 441
Payette, in sandstone capstone of middle pillar on west side of railroad water tank, 0.1 meter from west edge and 0.1 meter from south edge; bottom of square hole (C. & G. S. b. m. A 6).....	2, 149. 191

	Feet.
Payette, in north wall of brick building occupied by the Moss Mercantile Co., 1.2 meters from ground and 1.2 meters west of northeast corner; copper bolt (C. & G. S. b. m. B 6).....	2, 152.351
Payette, in north wall of brick building occupied by the First National Bank, 1.2 meters above ground and 1.2 meters west of northeast corner; copper bolt (C. & G. S. b. m. C 6).....	2, 150.901
Crystal, 2.6 miles south of, 4 poles north of milepole 509, in sandstone culvert east of track, 0.2 meter from east edge and 0.15 meter from south edge; bottom of square hole (C. & G. S. b. m. D 6).....	2, 126.811
Weiser, 3.5 miles south of, 6 poles south of milepole 515, in south abutment of bridge 342, in offset west of track, 0.2 meter from west edge and 0.12 meter from north edge; bottom of square hole (C. & G. S. b. m. E 6)....	2, 113.536
Weiser, 0.3 mile southeast of, in top of north abutment of bridge over Weiser River, in sandstone offset east of track, 0.3 meter from south edge and about 0.5 meter from east edge; bottom of square hole, lettered "U. S. B. M." (C. & G. S. b. m. F 6).....	2, 107.901
Weiser, in west wall of brick building occupied by the Masonic Lodge, 3 meters north of southwest corner and 1.2 meters above ground; copper bolt marked "U. S. B. M." (C. & G. S. b. m. G 6).....	2, 122.004
Weiser, in west wall of brick courthouse at Oldtown, Weiser, 1 mile east of railroad station; red metal disk (C. & G. S. b. m. H 6).....	2, 119.009

#### BIRCH CREEK QUADRANGLE.

[Latitude 44°-44° 30'; longitude 117°-117° 30'.]

#### From Weiser along Oregon Short Line R. R. to point near Huntington.

Eaton, 1 mile east of, 6 poles west of milepole 522½, 27 meters south of track of Oregon Short Line R. R., 1 meter south of fence; bottom of square hole in top of sandstone post, lettered "U. S. □ B. M." (C. & G. S. b. m. I 6).	2, 114.437
Eaton, 1 mile west of, on railroad right of way, 2 poles west of milepole 525, 15 meters south of track, 4 meters east of telegraph pole; iron pipe with red metal cap (C. & G. S. b. m. J 6).....	2, 098.737
Olds Ferry, on railroad right of way, 27 meters east of track, 1 meter from fence, 9 poles north of milepole 532, 3 poles south of station sign; bottom of square hole in top of limestone post, top lettered "U. S. □ B. M." (C. & G. S. b. m. K 6).....	2, 073.054

## APPENDIX B.

### SECONDARY ELEVATIONS.

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

Locality.	Quadrangle.	County.	Elevation.
Bald Mountain.....	Montpelier.....	Bear Lake.....	9,251
Do.....	Sandpoint.....	Kootenai.....	6,228
Bear Lake, water surface.....	Montpelier.....	Bear Lake.....	5,924
Big Rock Mountain, summit of, 0.5 mile north of Sixty-two range station on trail; tablet stamped "7100" (vertical angle b. m.).	Lolo.....	Idaho.....	7,100
Black Lead mining district, 1 mile north of, summit of highest peak; tablet stamped "7525" (vertical angle b. m.).	.....do.....	Clearwater.....	7,525
Black Lead mining district, 2 miles northeast of, 1 mile south of Rhodes Peak, summit of hill on divide between Cayuse Creek and Kelly Creek; tablet stamped "7705" (vertical angle b. m.).	.....do.....	.....do.....	7,705
Black Lead mining district, 3 miles north of, be- tween two forks of Kelly Creek, summit of sharp peak; tablet stamped "7485" (vertical angle b. m.).	.....do.....	.....do.....	7,485
Boulder Peak.....	Sawtooth.....	Blaine.....	10,966
Boyle Mountain.....	.....do.....	.....do.....	8,980
Buckhorn mine, near, T. 64 N., R. 3 E.; probably tablet stamped "6323" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,323
Buttercup Mountain.....	Sawtooth.....	Blaine.....	9,081
Cabinet Mountain, T. 61 N., R. 3 W., sec. 12; prob- ably tablet stamped "7607" (vertical angle b. m.).	Priest Lake.....	Bonner.....	7,607
Cache Saddle, between mileposts 223 and 224 on State line; tablet stamped "6800" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,800
Cayuse Junction, 3 miles southeast of, summit of hill, north side of Lolo trail; tablet stamped "6890" (vertical angle b. m.).	.....do.....	Idaho.....	6,890
Cayuse Junction, 6 miles east of, summit of hill, north side of Lolo trail; tablet stamped "6890."	.....do.....	.....do.....	6,890
Cedar Mountain.....	Rathdrum.....	Kootenai.....	4,759
Chain Meadows, 4 miles south of, end of ridge be- tween two forks of North Fork of Moose Creek; tablet stamped "6435" (vertical angle b. m.).	Lolo.....	Idaho.....	6,435
Chamberlain Meadows, 3 miles north of, 2 miles west of Clearwater Gold and Copper camps, on main divide, north side of trail; tablet stamped "6340" (vertical angle b. m.).	.....do.....	Shoshone.....	6,340
Chamberlain Meadows, 9 miles west of, on main divide, St. Marys trail; tablet stamped "6105" (vertical angle b. m.).	.....do.....	.....do.....	6,105
Chamberlain Meadows, 3 miles west of, top of Five Lakes Butte main divide, St. Marys trail; tablet stamped "6745" (vertical angle b. m.).	.....do.....	.....do.....	6,745
Chamberlain Meadows, 6 miles southeast of, summit of mountain, on trail 6 miles east of Fly Camp; tablet stamped "6095" (vertical angle b. m.).	.....do.....	Clearwater.....	6,095
Chamberlain Meadows-Iron Mountain trail, on west side of, 2.5 miles west of Clearwater Gold and Cop- per Co.; tablet stamped "6340 1911 V. A." (vertical angle b. m.).	.....do.....	.....do.....	6,340
Chamberlain Mountain, on sharp east peak on; tab- let stamped "6615 1911 V. A." (vertical angle b. m.).	.....do.....	.....do.....	6,615
Chilco triangulation station.....	Rathdrum.....	Kootenai.....	5,625
Chimney Peak, summit of east knob, on Crag Moun- tain trail; tablet stamped "7255" (vertical angle b. m.).	Lolo.....	Idaho.....	7,255

Locality.	Quadrangle.	County.	Elevation.
Clifty Mountain (Doust triangulation station), T. 61 N., R. 2 E.; probably tablet stamped "6707" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,707
Cœur d'Alene, 7.5 miles southeast of, 4.5 miles east of Echo Bay, on summit of highest round top point, in stone 20 by 20 inches; aluminum bolt stamped "4440 S."	Rathdrum.....	Kootenai.....	4,440.5
Cœur d'Alene Lake; water surface.....	do.....	do.....	2,124
Cold Springs, 5 miles north of Pot Mountain, on summit of main divide, Pot Mountain trail, tablet stamped "6470" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,470
Conrad's cabin, 1 mile north of, 5 feet south of De Borgia trail, upper and last grassy spot; aluminum tablet stamped "5032 1911" (vertical angle b. m.).	St. Regis.....	Shoshone.....	5,032
Conrad's cabin, 2.4 miles southwest of, 200 feet north of Conrad trail, 5 feet northeast of rock monument 5 feet high; highest summit of Falls Peak (?); aluminum tablet stamped "1911 6439" (vertical angle b. m.).	do.....	do.....	6,439
Conrad's cabin, 1.5 miles east of, on burned knob between Gold and Simmons creeks, at base of 3-foot monument; cut on rock (vertical angle b. m.).	do.....	do.....	4,655
Conrad's cabin, 4.8 miles southeast of, 0.4 mile northeast of sharp bend in St. Joe River, in rocky outcrop, 2 feet south of rock monument 4 feet high; aluminum tablet, stamped "4211 1911" (vertical angle b. m.).	do.....	do.....	4,211
Conrad's cabin, 3.6 miles northwest of, 1.5 miles southwest of Bear Springs, highest summit of big timbered hill, in rocky outcrop, 4 feet south of rock monument 5 feet high; aluminum tablet stamped "6027 1911" (vertical angle b. m.).	do.....	do.....	6,027
Cook Mountain, summit of; tablet stamped "6575" (vertical angle b. m.).	Lolo.....	Idaho.....	6,575
Cook Mountain, on east side of, on sharp rocky spur point, opposite the center of main mountain; tablet stamped "6576 1911 V. A." (vertical angle b. m.).	do.....	Clearwater.....	6,575
Coolwater Mountain, summit of main divide, Crag Mountain trail; tablet stamped "6930" (vertical angle b. m.).	do.....	Idaho.....	6,930
Council Mountain triangulation station.....	Meadows.....	Washington.....	8,124
Crag Peak, summit of; tablet stamped "8014" (vertical angle b. m.).	Lolo.....	Idaho.....	8,014
Custer Peak.....	Cœur d'Alene special.	Shoshone.....	6,410
Dago Peak.....	do.....	do.....	4,999
Deer Butte.....	Mitchell Butte.....	Malheur.....	3,615
Diablo Peak, summit of, 3 miles southeast of Elk Summit ranger station; chiseled point (vertical angle b. m.).	Lolo.....	Idaho.....	7,465
Doust triangulation station (Clifty Mountain), T. 61 N., R. 2 E.; probably tablet stamped "6707" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,707
Dry Creek Butte.....	Mitchell Butte.....	Malheur.....	4,060
Easby Peak.....	Sawtooth.....	Blaine-Custer.....	11,093
East Lake, 2.75 miles southwest of, highest summit of hill, 10 feet west of rock monument 5 feet high; aluminum tablet stamped "6092 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	6,092
East Lake, 3 miles northeast of, south end of timbered hill, on ridge between East and West Lake creeks, 1 foot west of rock monument 4 feet high; cut on rock (vertical angle b. m.).	St. Regis.....	do.....	6,035
East Lake, 1.4 miles northeast of, south top of burned hill, at base of rock monument 4 feet high; cut on rock (vertical angle b. m.).	do.....	do.....	6,293
East Lake, 3.5 miles southeast of, 50 feet east of Montana trail, 6 feet north of rock monument 6 feet high; aluminum tablet stamped "6156 1911" (vertical angle b. m.).	do.....	do.....	6,156
East Sister Peak, top of, 2 feet west of rocky monument with small tree in center, 7 feet high; aluminum tablet stamped "6866 1911" (vertical angle b. m.).	Taft.....	do.....	6,866
Elk Mountain, on top of sharp east peak; tablet stamped "5345 V. A. 1911"	Lolo.....	Clearwater.....	5,345
Elk Mountain trail, on east side of, 0.5 mile south of Clearwater Timber Co.'s cabin; chiseled mark (vertical angle b. m.).	do.....	do.....	5,020
Fernan Lake; water surface.....	Rathdrum.....	Kootenai.....	2,129
Fish Lake; water surface.....	do.....	do.....	2,314
Fish Lake, 4 miles west of, summit of mountain between Sponge Meadows and Long Lake, 1 mile north of trail; tablet stamped "7414" (vertical angle b. m.).	Lolo.....	Clearwater.....	7,414

Locality.	Quadrangle.	County.	Elevation.
Fish Lakes ranger cabin, 0.2 mile west of State line post 209, northwest corner of ranger cabin; tablet stamped "5925" (vertical angle b. m.).	Lolo .....	Clearwater .....	5,925
Five Lakes Butte, on top of; tablet stamped "6745 V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,745
Fly Camp, 0.2 mile south of, on east side of Pot Mountain trail; tablet stamped "6370 V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,370
Fly Camp, summit of main divide, Pot Mountain trail; tablet stamped "6370" (vertical angle b. m.).	.....do.....	.....do.....	6,370
Fly Camp, 3 miles south of, 9 miles north of Pot Mountain, summit of main divide, Pot Mountain trail; tablet stamped "6490" (vertical angle b. m.).	.....do.....	.....do.....	6,490
Freeman Peak, summit of, on trail to Lost Horse Pass, on Selway River, 6 miles east of Three Forks ranger station; tablet stamped "7294" (vertical angle b. m.).	.....do.....	Idaho.....	7,294
French Mountain proper, on south end of, about 400 feet north of Pierce wagon road; chiseled mark (vertical angle b. m.).	.....do.....	Clearwater.....	5,335
Galena Peak.....	Sawtooth	Blaine-Custer	11,118
Gifford's (Charley) cabin, 2.25 miles north of, highest summit, rocky outcrop, on ridge west of Bird Creek, in rock; aluminum tablet stamped "5801 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	5,801
Gifford's (Charley) cabin, 3.25 miles west of, 100 feet south of St. Joe River trail, on rocky outcrop, top of Skukum Creek hill; aluminum tablet stamped "3225 1911" (vertical angle b. m.).	.....do.....	.....do.....	3,225
Gifford's (Charley) cabin, 1.5 miles southwest of, 30 feet west of Sister Peak trail, in rocky outcrop; aluminum tablet marked "5199 1911" in rock (vertical angle b. m.).	.....do.....	.....do.....	5,199
Glover Saddle, 1 mile east of, 5 miles east of Crag Mountain, summit of mountain on main divide, Crag Mountain trail; tablet stamped "6830" (vertical angle b. m.).	Lolo.....	Idaho.....	6,830
Goose Lake, northeast side of outlet of, 0.5 mile west of State line post 200; tablet stamped "5790" (vertical angle b. m.).	.....do.....	Clearwater.....	5,790
Government mine, 3 miles southeast of, T. 64 N., R. 4 W.; probably tablet stamped "6270" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,270
Granite Peak.....	Cœur d'Alene special.	Shoshone.....	6,610
Green mine, near, T. 64 N., R. 2 E.; probably tablet stamped "6002" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,002
Hailey.....	Hailey.....	Blaine.....	5,342
Haward camp on Lolo trail, 2 miles north of, summit of mountain; tablet stamped "6980" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,980
Hayden Lake; water surface.....	Rathdrum.....	Kootenai.....	2,242
Hayden Lake, 5.5 miles east of high roundtop burnt point, in rock; aluminum bolt stamped "5026 S."	.....do.....	.....do.....	5,026.5
Huckleberry Butte, 4 miles north of the Lochisa River, summit; tablet stamped "6706" (vertical angle b. m.).	Lolo.....	Idaho.....	6,706
Huckleberry Mountain.....	Sandpoint.....	Kootenai.....	4,365
Hyndman Peak; highest point in Idaho yet determined.	Hailey.....	Blaine-Custer.....	12,078
Indian, on south peak of ridge across Howard Creek from; tablet stamped "6980 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,980
Indian Grave, 4 miles from, on south side of Indian Grave-Cook Mountain trail, on rock nub; chiseled mark (vertical angle b. m.).	.....do.....	.....do.....	6,435
Indian Henry ridge, on sharp rock nub on large flat peak on, about 5 miles from junction of Skull and North Fork of Clearwater; tablet stamped "6015 V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,015
Isaac Lake, 1 mile south of, top of ridge; tablet stamped "7070" (vertical angle b. m.).	.....do.....	Idaho.....	7,070
Junction Mountain, summit of, 7 miles southeast of Pot Mountain; tablet stamped "6455" (vertical angle b. m.).	.....do.....	Clearwater.....	6,455
Kellogg Peak triangulation station.....	Cœur d'Alene special.	Shoshone.....	6,296
Kelly Creek and North Fork of Clearwater River, south of junction of, on rocky break of high spur on large mountain, marked by monument 7 feet high; tablet stamped "6455 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,455
Ketchum.....	Hailey.....	Blaine.....	5,823
Little Payette Lake; water surface.....	Meadows.....	Boise.....	5,103



Locality.	Quadrangle.	County.	Elevation.
Lolo Hot Springs, 6 miles west of Lost Lake trail crossing main divide, head of Granite Creek; tablet stamped "6945" (vertical angle b. m.).	Lolo.....	Clearwater, Idaho-Missoula, Mont.	6,945
Lookout Peak triangulation station.....	Meadows.....	Boise-Washington	7,812
Lookout Mountain, T. 63 N., R. 3 W., sec. 31; probably tablet stamped "6755" (vertical angle b. m.).	Priest Lake.....	Bonner.....	6,755
Lookout Peak, summit of; tablet stamped "6903" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,903
Lost Lakes, 6 miles east of, on top of ridge between two forks of Crooked Creek, Lolo Hot Springs trail; tablet stamped "6485" (vertical angle b. m.).	.....do.....	.....do.....	6,485
Lost Lake, 12 miles northeast of, 4 miles west of Pilot Knob, west of Lolo Hot Springs-Lost Lakes trail, in saddle between forks of Crooked Creek; tablet stamped "6235" (vertical angle b. m.).	.....do.....	.....do.....	6,235
McConnell Mountain, summit of; tablet stamped "7415."	.....do.....	Idaho.....	7,415
McConnell Mountain, 4 miles west of, main divide between Lochisa River and West Fork of Moose Creek; tablet stamped "6775" (vertical angle b. m.).	.....do.....	.....do.....	6,775
Maple Lake, 0.5 mile north of, summit of peak on divide between Warm Spring and Moose creeks; tablet stamped "7565" (vertical angle b. m.).	.....do.....	.....do.....	7,565
Meade Peak triangulation station.....	Montpelier.....	Bannock - B e a r Lake.	9,953
Mica Peak triangulation station.....	Rathdrum.....	Kootenai.....	5,250
Milepost 194, on Idaho-Montana State line; iron post stamped "6625" (vertical angle b. m.).	Lolo.....	Clearwater, Idaho-Missoula, Mont.	6,625
Milepost 198, on Idaho-Montana State line, 540 feet west of, at angle post; iron post stamped "7065."	.....do.....	Clearwater.....	7,065
Milepost 202, on Idaho-Montana State line; iron post stamped "6825" (vertical angle b. m.).	.....do.....	.....do.....	6,825
Milepost 204, on Idaho-Montana State line; iron post stamped "7250" (vertical angle b. m.).	.....do.....	.....do.....	7,250
Mileposts 206 and 207, angle post halfway between, on summit of hill south of Siamese Lake; iron post stamped "7245" (vertical angle b. m.).	.....do.....	.....do.....	7,245
Milepost 211, on Idaho-Montana State line; iron post stamped "7015" (vertical angle b. m.).	.....do.....	.....do.....	7,015
Milepost 213, on Idaho-Montana State line; iron post stamped "7295" (vertical angle b. m.).	.....do.....	.....do.....	7,295
Mitchell Butte triangulation station.....	Mitchell Butte....	Malheur.....	3,495
Moe Peak, summit of, 18 miles southeast of Three Forks ranger station on Selway River, Elk Ridge divide between Bear and Paradise creeks; tablet stamped "8078" (vertical angle b. m.).	Lolo.....	Idaho.....	8,078
Montana and Conrad trails, forks of, 50 feet north of, 10 feet south of rock monument 5 feet high; aluminum tablet stamped "6308 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	6,308
Montana Spring, 2.7 miles northwest of, 5 feet south of trail, 2 feet north of rock monument 4 feet high, highest summit of ridge; aluminum tablet stamped "5760 1911" (vertical angle b. m.).	.....do.....	.....do.....	5,760
Moose City trail, 0.8 mile north of, 6 miles east of Fly Camp, on peak; tablet stamped "6095 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,095
Moose Creek Buttes, 0.8 mile east of most eastern main butte, on east end of; tablet stamped "6570 V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,570
Murray Peak triangulation station.....	Cœur d'Alene special.	Shoshone.....	5,920
Owyhee Ridge.....	Mitchell Butte....	Malheur.....	4,960
Oxford mine shaft, 600 feet northwest of, on big boulder; tablet stamped "3935 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	3,935
Pack River, on point northeast of mouth of, northwest of Round Top triangulation station, on south side of large basin drained largely by Rapid Lightning Creek; probably tablet stamped "4810" (vertical angle b. m.).	Priest Lake.....	Bonner.....	4,810
Packsaddle Mountain, T. 54 N., R. 1 E.; probably tablet stamped "6414" (vertical angle b. m.).	.....do.....	.....do.....	6,414
Payette Lake, water surface.....	Meadows.....	Boise.....	4,985
Pend Oreille Lake, water surface.....	Sandpoint.....	Kootenai.....	2,051
Pilot Knob, Black Lead triangulation station, summit of main divide at head of Granite Creek; copper plug stamped "7265" (vertical angle b. m.).	Lolo.....	Clearwater.....	7,265
Pot Mountain, on south end of, 100 feet east of trail; tablet stamped "6990" V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,990
Pot Mountain, 7 miles south of, 1 mile west of summit of main divide, Squaw Camp Gulch, Pot Mountain trail; tablet stamped "5670" (vertical angle b. m.).	Washington Creek	.....do.....	5,670

Locality.	Quadrangle.	County.	Elevation.
Pot Mountain, 4 miles south of, summit of main divide, Pot Mountain trail; tablet stamped "6665" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,665
Pot Mountain, 1 mile south of, summit of main divide, Pot Mountain trail; tablet stamped "6990" (vertical angle b. m.).	Lolo.....	.....do.....	6,990
Pot Mountain, summit of (vertical angle b. m.).....	.....do.....	.....do.....	7,175
Pot Mountain Ridge, on southwest end of, on sharp rocky peak, above Jackknife Meadows; chisel mark (vertical angle b. m.).	.....do.....	.....do.....	6,665
Pot Mountain trail, on east side of, 1 mile southwest of Cold Springs Camp; tablet stamped "6470 V. A. 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,470
Pot Mountain trail, on prominent rock nub; chisel mark (vertical angle b. m.).	.....do.....	.....do.....	5,672
Powell Junction, 2 miles east of, summit of hill, on main divide Lolo trail; tablet stamped "6305" (vertical angle b. m.).	.....do.....	.....do.....	6,305
Powell ranger station, 6 miles west of, north side of Lochisa River, south side of trail, on end of ridge; chisel point (vertical angle b. m.).	.....do.....	Idaho.....	4,405
Priest Lake, water surface.....	Sandpoint.....	Kootenai.....	2,439
Ranger Peak.....	Missoula.....	Idaho.....	8,810
Rathdrum Bald.....	Rathdrum.....	Kootenai.....	4,970
Rhodes Peak, summit of; tablet stamped "7940" (vertical angle b. m.).	Lolo.....	Clearwater.....	7,940
Roman Nose, T. 61 N., R. 2 W.; probably tablet stamped "7264" (vertical angle b. m.).	Priest Lake.....	Bonner.....	7,264
Round Top triangulation station, T. 57 N., R. 2 E.; probably tablet stamped "6163" (vertical angle b. m.).	.....do.....	.....do.....	6,163
Saddle Mountain triangulation station, T. 65 N., R. 3 W.; probably tablet stamped "6815" (vertical angle b. m.).	.....do.....	.....do.....	6,815
Saddle Peak, on north peak of, 5 miles north of Cold Springs camp; tablet stamped "6490 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,490
St. Joe quartz cabin, 3.25 miles southwest of, on high ridge west of Falls Creek, in rock, raised rock monument 10 feet southwest of tablet; aluminum tablet stamped "5945 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	5,945
St. Joe quartz cabin, 1.2 miles northeast of, 0.6 mile west of De Borgia trail, on highest summit of timbered hill; aluminum tablet stamped "5514 1911" (vertical angle b. m.).	St. Regis.....	.....do.....	5,514
St. Marys trail, on north side of, about 2 miles southeast of Squaw Mountain; tablet stamped "6105 V. A. 1911" (vertical angle b. m.).	Lolo.....	Clearwater.....	6,105
Scotchman triangulation station, T. 56 N., R. 3 E.; probably tablet stamped "7011" (vertical angle b. m.).	Priest Lake.....	Bonner.....	7,011
Selway River, 0.5 mile northeast of junction of Bear Creek, end of ridge; tablet stamped "3023" (vertical angle b. m.).	Lolo.....	Idaho.....	3,023
Selway River, tepee cabin on, 3 miles north of, summit of mountain; tablet stamped "6535" (vertical angle b. m.).	.....do.....	.....do.....	6,535
Sentinel Peak, highest east summit of, 6 feet south of rock monument 7 feet high; aluminum tablet stamped "6762 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	6,762
Shasta Butte.....	Rathdrum.....	Kootenai.....	4,868
Shaw Mountain.....	Sawtooth.....	Blaine.....	9,638
Siwash Peak, highest part of top, 2 feet west of rock monument 2 feet high, in rocky outcrop; aluminum tablet stamped "5829 1911" (vertical angle b. m.).	Taft.....	Shoshone.....	5,829
Smith Peak, T. 63 N., R. 3 W., sec. 1; probably tablet stamped "7650" (vertical angle b. m.).	Priest Lake.....	Bonner.....	7,650
Snowstorm Peak.....	Cœur d'Alene special.....	Shoshone.....	6,340
Snowyside triangulation station.....	Sawtooth.....	Blaine.....	10,646
Spirit Lake, water surface.....	Rathdrum.....	Kootenai.....	2,442
Squaw Peak, summit of, 12 miles east of Three Forks ranger station on Selway River, on trail to Lost Horse Pass; tablet stamped "7677" (vertical angle b. m.).	Lolo.....	Idaho.....	7,677
Stevens Peak, triangulation station.....	Cœur d'Alene special.....	Shoshone.....	6,826
Striped Peak.....	.....do.....	.....do.....	6,329
Sydney Butte.....	Sawtooth.....	Blaine.....	8,147
The Bungalow, 6 miles west of, on ridge south from Elk Mountain; tablet stamped "5020" (vertical angle b. m.).	Washington Creek.....	Clearwater.....	5,020

Locality.	Quadrangle.	County.	Elevation.
The Bungalow, 2 miles west of main divide between Oro Grande Creek and North Fork of Clearwater River, summit of hill, on trail; tablet stamped "5340" (vertical angle b. m.).	Washington .....	Clearwater .....	5,340
The Nub, on top of; tablet stamped "6950 V. A. 1911" (vertical angle b. m.).	Lolo .....	.....do.....	6,950
Three Fork ranger station, 9 miles northeast of, south end of ridge between Maple and Moose creeks; tablet stamped "6730" (vertical angle b. m.).	.....do.....	Idaho .....	6,730
Tiger Peak .....	Cœur d'Alene special.	Shoshone .....	6,635
T. 37 N., R. 6 E., sec. 33, north side of road up French Creek; tablet stamped "5335" (vertical angle b. m.).	Washington Creek.	Clearwater .....	5,335
T. 38 N., R. 7 E., sec. 30, end of road up west Fork of Elk Creek; tablet stamped "3935" (vertical angle b. m.).	.....do.....	.....do.....	3,935
T. 59 N., R. 2 E., sec. 35; probably tablet stamped "6785" (vertical angle b. m.).	Priest Lake .....	Bonner .....	6,785
T. 60 N., R. 1 E., sec. 31; probably tablet stamped "4493" (vertical angle b. m.).	.....do.....	.....do.....	4,493
T. 60 N., R. 3 W., sec. 2; probably tablet stamped "7357" (vertical angle b. m.).	.....do.....	.....do.....	7,357
T. 61 N., R. 2 E., 2 miles northwest of mouth of Boulder Creek; probably tablet stamped "3487" (vertical angle b. m.).	.....do.....	.....do.....	3,487
T. 61 N., R. 3 W., sec. 5; probably tablet stamped "6621" (vertical angle b. m.).	.....do.....	.....do.....	6,621
T. 64 N., R. 3 E., sec. 6; probably tablet stamped "6289" (vertical angle b. m.).	.....do.....	.....do.....	6,289
T. 65 N., R. 1 E.; probably tablet stamped "5428" (vertical angle b. m.).	.....do.....	.....do.....	5,428
Trestle Creek, 1.5 miles north of, T. 57 N., R. 1 E.; probably tablet stamped "4830" (vertical angle b. m.).	.....do.....	.....do.....	4,830
Trimmed Tree Hill, highest summit of, 0.2 mile south of Montana trail, 6 feet west of tree; bronze tablet in rock stamped "6393 1911" (vertical angle b. m.).	Taft .....	Shoshone .....	6,393
Trimmed Tree Hill, 2 miles southwest of, 1 mile south of Montana Spring, 2 feet southwest of rock monument 5 feet high; cut on rock (vertical angle b. m.).	.....do.....	.....do.....	6,240
Trimmed Tree Hill, 4 miles east of, 75 feet north of Montana trail, 6 feet north of rock monument 6 feet high, in rocky ledge; aluminum tablet stamped "6225 1911" (vertical angle b. m.).	.....do.....	.....do.....	6,225
Trimmed Tree Hill, 4.6 miles southwest of, 0.15 mile south of Montana trail, in sharp rocky outcrop; aluminum tablet stamped "5216 1911" (vertical angle b. m.) (6 feet south of rock monument 5 feet high).	.....do.....	.....do.....	5,216
Twin triangulation station (Cabinet Mountain), T. 61 N., R. 3 W., sec. 12; probably tablet stamped "7607" (vertical angle b. m.).	Priest Lake .....	Bonner .....	7,607
Vale Butte triangulation station .....	Mitchell Butte .....	Malheur .....	3,167
Wallow Mountain, summit of, 7 miles north of Pot Mountain, on Indian Harry Ridge; tablet stamped "6015" (vertical angle b. m.).	Lolo .....	Clearwater .....	6,015
Windy Ridge, summit of mountain, 3 miles northwest of Indian Grave Camp on Lolo trail, Cook Mountain trail; tablet stamped "6435" (vertical angle b. m.).	.....do.....	Idaho .....	6,435
Wolf Lodge Creek, at head of, 10 miles northeast of Cœur d'Alene, summit of high roundtop burnt point, in large bowl; aluminum bolt stamped "4851 S".	Rathdrum .....	Kootenai .....	4,851.5

# INDEX.

A.	Page.
Ada County.....	108
Agatha.....	51
Ahsahka.....	52, 53
Alexander.....	18, 77
American Falls.....	114
American Falls quadrangle.....	113-114
Ammon quadrangle.....	74-75
Anderson, A. P., work of.....	78
Arco.....	32
Arco quadrangle.....	31-33
Arrow Junction.....	53
Asotin quadrangle.....	53
Athol.....	79
Avery.....	47
Auburn.....	23, 25

B.	Page.
Bald Mountain triangulation station.....	59
Bancroft.....	18, 76, 78
Bangs.....	52
Bannock.....	113
Bannock County.....	17, 72, 108
Barringer, W. H., work of.....	42
Bassett.....	111
Battle Creek bridge.....	70
Bay Horse quadrangle.....	35-37
Bear Creek.....	88, 89
Bear Lake.....	19, 21
Bear Lake County.....	17
Bear River.....	67, 68
Beaver.....	90, 91
Bellgrove.....	82
Bench marks, definition of.....	6
plate showing.....	5
Big Burn.....	58, 59
Big Meadows.....	86
Big Pool.....	87
Biggs, L. F., work of.....	17, 51
Bingham County.....	28, 72, 108
Birch Creek quadrangle.....	7-8, 120
Birkett, D. S., work of.....	17, 28, 42, 43
Bisuka quadrangle.....	117
Bitterroot Mountain.....	91
Blackfoot.....	29, 110
Blackfoot Reservoir.....	72, 73, 74, 77
Blackfoot River.....	24
Blaine County.....	26, 28
Bliss.....	116
Boise County.....	8
Boise quadrangle.....	119
Bonner County.....	92
Bonnors Ferry.....	95
Bonnors Ferry quadrangle.....	94-95
Border.....	20
Bright, M. S., work of.....	92

	Page.
Bruneau quadrangle.....	99-102
Bumble Bee.....	83
Burke.....	91

C.	Page.
Cabinet.....	94
Calder.....	48
Caldwell.....	118-119
Catispell quadrangle.....	95
Camas.....	112
Cambridge.....	10
Cambridge quadrangle.....	10-11
Camp Martin.....	56, 57
Canyon County.....	7, 108
Cataldo.....	82
Cataldo quadrangle.....	82-92
Central Ferry.....	51, 52
Cerro Grande.....	30, 31
Challis.....	36, 37, 38
Chatcolet.....	44, 45
Chatcolet quadrangle.....	43-45
Chesterfield.....	74, 76, 77
Chicago, Milwaukee & Puget Sound Ry. ....	44, 45, 47, 49
Chubb Springs.....	73, 75
Clark, Howard, work of.....	65
Clark Fork.....	94
Clarkia.....	50
Clearwater River.....	52, 54, 58
Cleft.....	117
Cleveland.....	67
Coast and Geodetic Survey, elevations by ..	108-120
Cocolalla.....	92
Cœur d'Alene.....	79, 80, 81
Cœur d'Alene Lake.....	44, 45, 79
Cœur d'Alene River, East Fork of.....	87
North Fork of.....	88, 92
Cœur d'Alene special quadrangle.....	82-92
Colburn.....	93, 114
Continental mine.....	96-98
Coolin.....	93, 94
Copeland.....	95
Copper Bell mine.....	88
Copper Prince.....	48
Coulam.....	69
Council.....	10, 11
Crawford.....	14
Crowe, H. S., work of.....	92
Crystal.....	8, 120
Custer County.....	28

D.	Page.
Danforth, F. A., work of.....	72
Darlington.....	33
Datum, inland, determination of.....	7
Dayton.....	68, 69, 108
Delta.....	92

	Page.		Page.
Diamond Springs.....	9	Harer.....	20
Dickey.....	35	Harlow, Charles, jr., work of.....	92
Dickey quadrangle.....	34-35	Harrison.....	45, 81
Dietrich.....	115	Hatch, S. M., work of.....	78
Dingle.....	19, 20	Hatch quadrangle.....	76-77
Doniphan.....	27	Hauser Junction.....	78, 80
Downey.....	109	Hawgood.....	112
Drummond, Goyne, work of.....	15	Hayden Lake.....	80
Dubois.....	112	Hefty, J. G., work of.....	8, 92
Dubois quadrangle.....	112-113	Henry.....	72, 73
Duck Valley Indian Reservation.....	98	Henry quadrangle.....	24, 72-74
E.		Herrick.....	48
Eagle.....	90	High Bridge.....	112, 113
East Thatcher.....	66, 67	Hope.....	94
Eaton.....	8, 120	Hot Springs, Bruneau quadrangle.....	99-102
Elbo Bend.....	65	Montpelier quadrangle.....	19
Elk Summit ranger station.....	64	Howards Camp.....	61
Ellis.....	38, 39, 40	Humphrey.....	113
Elmira.....	93, 94	Huntington, Oreg.....	7
Elmore County.....	98, 108	I.	
Ethelton.....	47	Idaho County.....	50
Evergreen.....	13	Idaho Falls.....	111
F.		Indian.....	61
Falcon.....	46	Indian Grave.....	59, 61
Falls ranger station.....	60	Indian Valley.....	14, 15
Fendoy.....	43	Inkom.....	109
Fernan Lake.....	79	J.	
Fernwood.....	50	Jones.....	112
Fernwood quadrangle.....	47-50	K.	
Firth.....	110, 111	Kamiah.....	54
Fish Lake.....	78	Kamiah quadrangle.....	53-55
Flat Creek dam.....	49	Kellogg.....	90, 91
Franklin.....	66	Kendall, G. H., work of.....	92
Freedom quadrangle.....	23-24	Kendrick quadrangle.....	51-52
Fremont County.....	15, 108	Ketchum.....	26, 27, 28
Fry, E. M., work of.....	43, 51	Kimama.....	114, 115
Fuller.....	115	Kimama quadrangle.....	114-115
G.		King Hill.....	116
Galena.....	28	Kingston.....	82
Garner.....	69, 108	Kooskia.....	54, 58
Gem.....	91	Kootenai.....	94
Genesee.....	51, 52	Kootenai County.....	43, 78, 92, 95
Geneva.....	20	Kootenai Valley Ry.....	95
Gibson.....	110	Kuna.....	118, 119
Gilman.....	27	Kyle.....	46, 47
Gimlet.....	26	L.	
Giveout.....	21	Lacon.....	44
Glenns Ferry.....	116	Lane.....	81
Glenns Ferry quadrangle.....	116	Lanes Creek quadrangle.....	25-26, 75
Glenwood.....	53	Lapwai quadrangle.....	52-53
Glover, A. L., work of.....	96	Lardo.....	12, 13
Goat Roost.....	64	Larson.....	46
Goddard Bar.....	57	Lava.....	17, 18
Gooding.....	115	Leiberg mine.....	85
Gooding quadrangle.....	115-116	Lemhi County.....	28, 42
Grace.....	77	Len Landing.....	81
Grand Forks.....	46	Leonore.....	51
Granite.....	91, 92	Leslie.....	33
Grasmere.....	102-105	Lewiston.....	52, 53
Greer.....	54	Lincoln County.....	108
H.		Little Weitas.....	58
Hailey Hot Springs.....	26	Locksaw River.....	63, 64
Hailey quadrangle.....	26-27	Lolo Forks.....	56
Hamer.....	112	Long Valley Summit.....	12
Hardmans Hollow.....	23	Lookout.....	46

	Page.	O.	Page.
Lost Lakes.....	62	Ohara Bar.....	57, 60
Lost River.....	32	Old Lardo.....	12
Lotus.....	45	Old's ferry.....	8, 120
Lovell.....	43	Omega.....	49
Lowell.....	57	Oneida County.....	65, 72, 108
M.		Oneita.....	67
McCammon.....	17, 109	Onyx.....	17, 109
Mackay.....	33, 34, 35	Orchard.....	117
Mackay quadrangle.....	33-34	Oregon Short Line R. R.....	7,
Malad City.....	108-109	8, 17, 26, 29, 33, 66, 98, 108, 109,	
Manson.....	19	110, 111, 113, 114, 116, 117, 119, 120	
Maps, topographic, list of.....	7	Oregon-Washington R. R. & Navigation Co..	81, 90
Market Lake.....	111, 112	Orofino.....	53
Market Lake quadrangle.....	111-112	Osburn.....	90
Markham.....	93	Ovid.....	20
Marsh Valley.....	109	Owinza.....	115
Mashburn.....	49	Owyhee.....	117
Maxwell, D. A., work of.....	8	Owyhee County.....	98
May quadrangle.....	40, 42	Owyhee River.....	107
Meadows.....	13	Oxford.....	69, 108
Meadows quadrangle.....	11-15	P.	
Meckley Lake.....	19	Pacific & Idaho Northern Ry.....	8, 10, 11, 13
Medbury.....	116	Page, M. P., work of.....	78
Michaud.....	113	Pahsimaroi River.....	38
Midvale.....	9, 10	Pardee.....	54
Midway.....	42	Paris.....	20
Mill Creek Summit.....	11, 12	Parma.....	119
Minidoka.....	114	Payette.....	8, 119, 120
Mink Creek quadrangle.....	66-72, 108	Payne.....	111
Mirror Lake.....	95	Pebble.....	18, 77
Monida, Mont.....	113	Peck.....	51, 52
Monida quadrangle.....	113	Pegram.....	20
Monroe.....	111	Pelican Slough.....	73
Montpelier.....	19, 20	Pend Oreille Lake.....	80, 90
Montpelier quadrangle.....	19-22	Pend Oreille quadrangle.....	94
Moore.....	32, 33	Perry.....	67
Moose Creek, mouth of.....	65	Personnel, record of.....	5
Mora.....	117	Pescadero.....	19
Moravia.....	95	Picabo quadrangle.....	27
Moreland.....	29	Pocatello.....	109-110
Moreland Junction.....	29	Pocatello quadrangle.....	17-18, 103-110
Morrison's mine.....	92	Pocono.....	47, 48
Moscow.....	51	Port Hill.....	95
Mountain Home.....	98, 99, 116, 117	Portneuf.....	109
Mountain Home quadrangle.....	98-99, 116-117	Post Falls.....	79, 82
Mud Lake.....	19, 21	Pot Mountain quadrangle.....	61
Mullan.....	46, 91	Powell.....	31, 32
Murray.....	90, 91	Powell Junction.....	62
Musselshell.....	56	Powell ranger station.....	62, 63, 64
Myrtle.....	51, 53	Precise leveling, definition of.....	5
N.		Preston.....	68
Nampa.....	118	Priest Lake.....	93, 96
Nampa quadrangle.....	118-119	Priest Lake quadrangle.....	96-98
Napati.....	114	Priest River.....	93
Naples.....	94	Primary leveling, definition of.....	5
Nevada-Idaho State line.....	106	Prowell, W. R., work of.....	92
Newport.....	95	Publication, previous.....	5
Nez Perce County.....	50	Pullman quadrangle.....	51
Niter.....	66, 77	R.	
North Eden.....	19	Rabbit Foot quadrangle.....	37-40
North Lapwai.....	52, 53	Ramsdell.....	44
Northern Pacific Ry.....	46, 51, 53, 79, 91, 92, 94	Ramsey.....	78, 81
Notus.....	119	Rathdrum.....	78, 79, 80
Noveno.....	19		
Nyssa.....	119		

	Page.		Page.
Rathdrum quadrangle.....	78-82	T.	
Raven.....	91	Taber.....	30
Raymond.....	20	Taft quadrangle.....	46-47
Renfro.....	17	Taylor, O. G., work of.....	17
Riddle.....	105-106	Teton.....	16
Riddle quadrangle.....	104-107	The Crag Mountains quadrangle.....	58-60
Rocky Ridge triangulation station.....	57, 58	Thornton.....	94
Roland.....	46	Thoroughfare.....	96
Rose.....	19	Three Forks.....	65
Roseberry.....	13, 14	Ticeska.....	116
Ross Fork.....	110	Tilden quadrangle.....	29-31
Rover.....	45	Tindal quadrangle.....	102-104
		Tramway.....	54
S.		Tunupa.....	115
St. Anthony.....	16	Twin Falls quadrangle.....	115
St. Anthony quadrangle.....	16		
St. Charles.....	21	U.	
St. Joe.....	48, 49	Upper Priest Lake.....	96
St. Maries.....	44, 45, 49	Utah Power & Light Co., bench marks of. 65, 70-72	
St. Paul Pass.....	46	Dam No. 3 of.....	67, 68
Salmon.....	40, 41, 42, 43		
Salmon quadrangle.....	41-42, 43	V.	
Sandpoint.....	93	Van Wyck.....	11, 14, 15
Sandpoint quadrangle.....	92-94	Victor.....	16
Santa.....	49, 50	Victor quadrangle.....	16
Sawtooth quadrangle.....	27-28		
Sea level, mean, definition of.....	6	W.	
Searle, A. B., work of.....	26	Wallace.....	90
Secondary elevations.....	121-126	Wapello.....	110
Semper, C. H., work of.....	7	Wapi.....	114
Senter.....	115	Wapi quadrangle.....	114
Shelley.....	111	Wardner.....	92
Shelley quadrangle.....	29, 110-111	Washburn, F. E., work of.....	78
Sherman Saddle.....	59	Washington County.....	7, 8, 108
Shoshone.....	115	Way.....	18
Shoshone County.....	43, 78	Wayan.....	75
Slug Creek quadrangle.....	19	Weber mine.....	89, 90
Snake River.....	99	Weippe.....	55, 56
Soda Springs.....	18	Weippe quadrangle.....	55-58
Soda Springs quadrangle.....	18, 77	Weiser.....	8, 9, 120
Soldier quadrangle.....	27	Weiser quadrangle.....	8, 8-10, 119-120
Spencer.....	113	Weston.....	66, 69, 108
Spirit Lake.....	78, 80	Whaley, F. L., work of.....	65, 72
Squaw Creek quadrangle.....	15	Wind Lake.....	64
Starkey.....	13	Wolf Lodge.....	81
Sterrett quadrangle.....	18, 78	Worswick's.....	28
Stetson.....	47		
Sullivan.....	91	Z.	
Summit Lake quadrangle.....	63-65	Zane.....	48
Sunfield.....	42		
Syringa.....	57		

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