DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, DIRECTOR

BULLETIN 563

GANCELLED.

RESULTS OF SPIRIT LEVELING IN MARYLAND

1896 TO 1911, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

Work done in cooperation with the State through the Maryland Geological Survey William Bullock Clark, State Geologist



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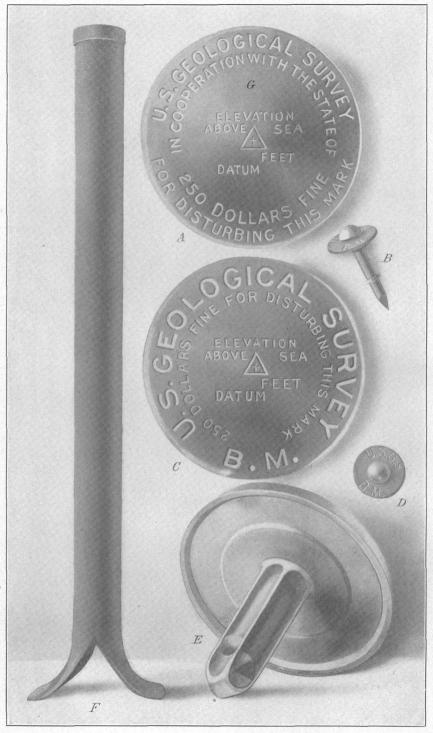


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field, Deal Island, Denton, Dover (30'), Drum Point, Harrington, Hur-	
lock, Nanticoke, Ocean City, Oxford, Pittsville, Princess Anne, Salis-	
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U. S. GEOLOGICAL SURVEY BULLETIN 563 PLATE I



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 MARYLAND, 1896 TO 1911, INCLUSIVE.

R. B. MARSHALL, Chief Geographer.

INTRODUCTION.

Cooperation.—The State of Maryland contributed financially to the work from 1896 to 1911, inclusive. The State is now completely mapped and bench marks have been established in every county except Calvert and St. Marys.

Previous publication.—That part of the results of spirit leveling in Maryland previously published in Bulletin 434 (which comprised descriptions and elevations of bench marks established in Delaware, District of Columbia, Maryland, and Virginia, 1896 to 1909, inclusive, based on the 1903 adjustment) has been corrected to agree with the 1907 adjustment of precise leveling of the Coast and Geodetic Survey and is here republished together with results of spirit leveling by the United States Geological Survey in Maryland since 1909. The elevations by the 1907 adjustment were not changed by the 1912 adjustment and are not likely to be changed by any future adjustment of the level net.

Personnel.—The field work from 1896 to 1906, inclusive, was done under the direction of H. M. Wilson, geographer, and that from 1907 to 1911, inclusive, was done under Frank Sutton, geographer. The work since January, 1908, was done under the general direction of R. B. Marshall, chief geographer. Credit is given to the respective levelmen in the headings of the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—The elevations are classified as precise or primary, according to the methods employed in their determination. The former are determined by lines of levels run either in both forward and backward directions or by simultaneous double-rodded lines, a high-grade instrument being used and special precautions being taken in observations and reduction to correct errors and make the line continuously good throughout. The latter or primary levels are determined with the Y level, precautions being taken against only the principal errors and the levels being run mostly in circuits of single

lines. The allowable limit of error observed on the precise work already done by the Geological Survey in this State is represented in feet by 0.02 \sqrt{D} and that for the primary work by 0.05 \sqrt{D} , in which D is the length of the circuit in miles.

Bench marks.—The standard bench marks are of two forms. first form is a circular bronze or aluminum tablet (C and E, Pl. I), 31 inches in diameter and 1 inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (F, Pl. I), used where masonry or rock is not available, consists of a hollow wrought-iron post 31 inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. The bottom is spread out to a width of 10 inches in order to give a firm bearing in the earth, and 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 14 inches in length driven through a copper washer $\frac{\pi}{2}$ inch in diameter. The tablets as well as the caps on the iron posts are appropriately lettered, and cooperation by a State is indicated by the addition of the State name (G, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with $\frac{3}{16}$ -inch steel dies on the tablets or post caps, to the left of the word "Feet." The office adjustment of the notes and the reduction to mean sea level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All United States Geological Survey elevations are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and

if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

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

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

Accident (Md.-W. Va.-Pa.). Annapolis.1 Antietam (Md.-Va.-W. Va.).2 Baltimore.8 Barclay (Md.-Del.).4 Belair (Md.-Pa.). Betterton.5 Bloodsworth Island.6 Brandywine.7 Cecilton (Md.-Del.).4 Chestertown.5 Choptank.1 Crapo.6 Crisfield (Md.-Va.). Deal Island. Denton. Dover (Del.-Md.-N. J.).4 Drum Point.6

*East Washington (Md.-D. C.). 78 Elkton (Md.-Del.-Pa.). Ellicott.8 Emmitsburg (Md.-Pa.). Flintstone (Md.-W. Va.-Pa.). *Frederick (Md.-Va.).º Fredericksburg (Va.-Md.). Frostburg (Md.-W. Va.-Pa.). Grantsville (Md.-Pa.). Green Run (Md.-Va.) Gunpowder.5 Hagerstown (Md.-Pa.). Hancock (W. Va.-Md.-Pa.). Harpers Ferry (Va.-W. Va.-Md.).2 Havre de Grace (Md.-Pa.). Hurlock. Ijamsville.9

Indian Head.

^{*} Out of print.

¹ Annapolis, Oxford, St. Michaels, and Sharps Island sheets, on scale of 1:62500, have been reduced and form Choptank sheet, on scale of 1:125000.

² Antietam sheet shows part of Harpers Ferry quadrangle on larger scale.

³ Baltimore, Ellicott, Laurel, and Relay sheets, on scale of 1:62500, have been reduced and form Patapsco sheet, on scale of 1:125000.

⁴ Barclay and Cecilton sheets show parts of Dover quadrangle on larger scale.

⁵Betterton, Chestertown, Gunpowder, and North Point sheets, on scale of 1:62500, have been reduced and form Tolchester sheet, on scale of 1:125000.

⁶Bloodsworth Island, Crapo, Drum Point, and Point Lookout sheets show St. Marys quadrangle on larger scale.

⁷ Brandywine, the east half of Washington, Owensville, and Prince Frederick sheets, on scale of 1:62500, have been reduced and form Patuxent sheet, on scale of 1:125000.

⁸ Washington sheet shows the same area as East Washington and West Washington sheets

⁹ Ijamsville, Mount Airy, Rockville, and Seneca sheets show Frederick quadrangle on larger scale.

Laurel.1 Leonardtown.2 Montross (Va.-Md.).2 Mount Airy.3 Mount Vernon (Va.-Md.-D. C.).4 Nanjemoy. Nanticoke. Nomini (Md.-Va.).2 North Point.5 Oakland (Md.-W. Va.).6 Ocean City (Md.-Del.). Owensville.7 Oxford.8 Parkton (Md.-Pa.). Patapsco.1 Patuxent (Md.-D. C.). Pawpaw (Md.-W. Va.-Pa.). Piedmont (W. Va.-Md.). Piney Point (Md.-Va.).2 Pittsville (Md.-Del.).

Point Lookout (Md.-Va.). Prince Frederick.7 Princess Anne (Md.-Va.). Relav.1 Rockville (Md.-Va.).8 Romney (W. Va.-Va.-Md.). Salisbury (Md.-Del.). St. Marys (Md.-Va.). St. Michaels.8 Seneca (Md.-Va.).8 Sharps Island.8 Snow Hill (Md.-Va.). Taneytown (Md.-Pa.). Tolchester.5 Washington (Md.-D. C.-Va.), double sheet.47 10 20 cents. Westminster (Md.-Pa.). *West Washington (Md.-D. C.-Va.).4 10 Wicomico (Md.-Va.).2 Williamsport (Md.-Pa.-W. Va.).

PRECISE LEVELING.

Washington quadrangle.

[Latitude 38° 45'-39°; longitude 76° 45'-77° 15'.]

MONTGOMERY COUNTY.

The elevations in the following list were determined by precise leveling and are based upon the elevation of bench mark "F" at Great Falls, Md., determined by precise leveling of the Coast and Geodetic Survey.

The work was done in November, 1910, by D. H. Baldwin.

^{*} Out of print.

¹ Baltimore, Ellicott, Laurel, and Relay sheets, on scale of 1:62500, have been reduced and form Patapsco sheet, on scale of 1:125000.

 $^{^2}$ Leonardtown, Montross, Piney Point, and Wicomico sheets, on scale of 1:62500, have been reduced and form Nomini sheet, on scale of 1:125000.

³ Ijamsville, Mount Airy, Rockville, and Seneca sheets show Frederick quadrangle on larger scale.

The west half of Washington sheet shows part of Mount Vernon quadrangle on larger scale.

⁵Betterton, Chestertown, Gunpowder, and North Point sheets, on scale of 1:62500, have been reduced and form Tolchester sheet, on scale of 1:125000.

⁶ Oakland sheet shows part of Piedmont quadrangle on larger scale.

⁷ Brandywine, the east half of Washington, Owensville, and Prince Frederick sheets, on scale of 1:62500, have been reduced and form Patuxent sheet, on scale of 1:125000.

⁸ Annapolis, Oxford, St. Michaels, and Sharps Island sheets, on scale of 1:62500, have been reduced and form Choptank sheet, on scale of 1:125000.

⁹ Bloodsworth Island, Crapo, Drum Point, and Point Lookout sheets show St. Marys quadrangle on larger scale.

¹⁰ Washington sheet shows the same area as East Washington and West Washington sheets.

From Great Falls southeast along Chesapeake & Ohio Canal to Lock 8, near Cabin John Bridge.

Great Falls, near Lock 20, east side of spillway of dam, on top of	
parapet wall, between crane and gage rod; the surface within a	Feet.
chiseled angle (U. S. C. E. Intake b. m. 156.445)	157 . 533
Great Falls, 155-foot mark on gage	156. 14
Great Falls, crest of dam near spillway (U. S. C. E. elevation 150.5) - Great Falls, east end of dam, on northwest corner of next to top	151.75
step of parapet wall; chiseled angle (U. S. C. E. b. m.) Great Falls, west wall of Lock 20, 0.2 meter west of edge and 1.65 meters south of north gate; bottom of a square cut 中 (C. & G.	155. 246
S. b. m. F) Great Falls, southwest corner of gate house, on projecting foundation stone, 1.2 feet south of southwest corner of water table; bronze	166, 592
tablet stamped "Prim. Trav. Sta. No. 1, 171"Great Falls, west entrance to gate house; chiseled angle (U. S. C. E. clavetion 171.26)	171. 146 172. 353
Lock 19, on west wall, 2 feet north of south end and about 5 feet east	
of west side of south end; chiseled cross painted "159"	158. 620
Lock 18, in top of west wall, at south end; end of broken tie bolt with "A" cut alongside, painted "150"	149. 672
Lock 17, in top of west wall, southwest corner of south end; chiseled square painted "142"	141. 640
Gateway between Locks 16 and 17, on west wall; shallow drill hole, painted "135"	135. 435
Locks 16 and 17, gateway between, on west wall; bottom of chiseled	
square 💠	135. 519
Lock 16, top of west wall, at south end, 2.25 feet north by 6.75 feet	
east of southwest corner; chiseled cross painted "134"	133. 509
Lock 15, on top of west wall, at south end, 2 feet 1 inch north by 3 feet	
8 inches east of southwest corner; chiseled cross painted "126"	125. 577
Lock 15, 380 feet south of, west of towpath, on rock; chiseled square	400 101
marked "120"	120. 461
Lock 15, 0.6 mile south of, 240 feet south of center of bridge over spill-	
way, west of towpath, on ledge; chiseled triangle painted "121" Lock 15, 1 mile south of, west of towpath, at bend in canal, on ledge; chiseled square painted "119"	120. 617
Milepost 11, west of towpath; marked point on top, painted "119"	119. 339 119. 030
Milepost 11, 0.8 mile south of, west of towpath, on root of water willow; copper nail, tree is blazed and scribed "U. S. G. S. b. m. 120"	119. 914
Milepost 10, south of towpath; marked point on top, painted "119"_	119. 020
Milepost 10, 1,813 feet south of, under surface of slab over floodgate_	117.826
Lock 14, on north wall, on north stone of east end; bronze tablet	
stamped "117" (Prim. Trav. Sta. No. 2)	117. 374
Lock 13, on south wall, 1 foot from southeast corner of east end; chiseled square painted "109"	109. 254
Lock 12, on southwest wall, 2 feet northwest of southeast end and 4	
feet northeast of southwest end; adjacent surface to chiseled cross,	
painted "102"	101. 574
Lock 11, on south wall, 2 feet west of east edge, 3 feet north of south	•
edge; adjacent surface to chiseled cross, painted "93"	93. 454
Lock 10, on south wall, near east end; chiseled cross painted "85"	85. 268

Lock 9, on south wall, near east end, 2 feet west by 3 feet north of	Feet.
southeast corner; chiseled cross painted "77"	77.46 0
Lock 8, on north wall, on north capstone of east end; bronze tablet	
stamped "69" (Prim. Trav. Sta. No. 3)	69.034

PRIMARY LEVELING.

Barclay, Betterton, Cecilton, Chestertown, Choptank (30'), Crapo, Crisfield, Deal Island, Denton, Dover (30'), Drum Point, Harrington, Hurlock, Nanticoke, Ocean City, Oxford, Pittsville, Princess Anne, Salisbury, Seaford, Snow Hill, St. Michaels, and Tolchester (30') quadrangles.

CAROLINE, CECIL, DORCHESTER, KENT, QUEEN ANNES, SOMERSET, TALBOT, WICOMICO, AND WORCESTER COUNTIES.

The elevations in the following list are based on heights derived by various gages of the Coast and Geodetic Survey and on checked levels of the Pennsylvania Railroad plus 0.64 foot, a mean correction derived through United States Geological Survey connections. For additional elevations in Dover, Harrington, and Seaford quadrangles see Delaware list (pp. 9, 10) bulletin 434; and for Franklin City, Va., in Snow Hill quadrangle, see Virginia list (p. 52) in same bulletin.

The leveling was done as follows: Cecilton and Barclay quadrangles, in 1896 by Charles Goldsborough and O. L. Pettibone; Barclay quadrangle additional work, in 1899 by T. D. Leonard and in 1904 by Ralph Hutchins; Betterton, Chestertown, and St. Michaels quadrangles, in 1899 by T. D. Leonard; Hurlock quadrangle, in 1899 by Leonard, in 1900 by George Bailey, and in 1904 by C. A. Clunet; Seaford quadrangle, in 1899 by Leonard and in 1904 by Clunet, in 1911 by J. H. Lefeaver, and in 1912 by J. M. Whitman; Denton and Harrington quadrangles, in 1899 by Leonard and in 1904 by B. J. Green; Oxford quadrangle, in 1900 by Bailey and J. W. Hodges, in 1902 by W. C. Palmer, and in 1904 by Clunet; Crapo quadrangle, in 1900 by Hodges and in 1904 by Clunet; Drum Point quadrangle, in 1904, by Clunet; Nanticoke quadrangle, in 1900, by Hodges, and in 1902 by Palmer; Salisbury, Princess Anne, and Pittsville quadrangles, in 1900 by Hodges and C. H. Semper; Crisfield and Deal Island quadrangles, in 1900 by Semper; Snow Hill and Ocean quadrangles, in 1900 by Hodges.

CECILTON (DOVER 30') QUADRANGLE.

[Latitude 39° $15'-39^{\circ}$ 30'; longitude 75° $45'-76^{\circ}$.]

From Chesapeake City southwest via Cayots Corners to Earleville, thence south and west to Locust Grove.

Cayots Cor	ners, at road forks; iron post stamped "83"	83.612
Earleville,	in stone in front of S. Duhamel's store; bronze tablet	
stamped	" 85 "	85. 282

Feet.

Fredericktown, bridge over Sassafras River; in face of northwest wing wall; bronze tablet stamped "5"	Feet. 5. 460
From Locust Grove south to Chesterville.	
Blacks station, in front of store, on stone foundation of middle pillar of porch; highest point	70. 26 55. 829
From Millington north along Philadelphia, Baltimore & Washington R. R. and highways to Bohemia Mills.	
Millington, northwest corner of Cypress and Sassafras streets, in doorsill of store; copper plug stamped "26"Massey, northwest corner of crossroads, in southeast corner of foundation of Walsberger's store; bronze tablet stamped "65"Massey, 3.5 miles east of, at Maryland-Delaware State line; top of boundary stoneSassafras, dwelling of Mr. Earnest; copper plug in step to back porch, stamped "U.S.G.S. b. m. 34"	27. 120 65. 770 68. 10 34. 791
BARCLAY (DOVER 30') QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 75° 45'-76°.]	
From Chesterville south to Benson Center, thence east to Sudlersville, thence north to Millington.	
Benton Corners, 1,000 feet west of, in northeast corner of foundation stone of farmhouse; bronze tablet stamped "60"Barclay, 1.5 miles north of, 50 feet west of railroad crossing, southwest corner of road; top of large stoneSudlersville, corner of Church and Main streets, northeast corner of stone foundation; bronze tablet stamped "66"	60. 911 69. 85 66. 798
From Barclay southwest to Roberts, thence southeast to Goldsboro, thence northeast to Marydel.	
Roberts, at southeast corner of Scott's store; iron post stamped "78"_ Ingleside, southwest corner of Beatty's yard; iron post stamped "62"_ Hollingsworth, south corner of crossroads, outside of corner of garden fence; iron post stamped "66" Goldsboro, on east corner of railroad station; bronze tablet stamped "63"	78. 469 62. 410 66. 954 63. 548
Marydel, south end of freight house; bronze tablet stamped "63" (reset 2 feet lower).	00. 040
From Crumpton southwest to McGinnes.	
McGinnes, 2.9 miles southwest of Crumpton, southeast corner of cross-roads, 50 feet east of store, in northwest corner of Williams's yard; iron post stamped "72, 1904"	72. 381
From Sudlersville east 4 miles.	
Peters Corners, 3.8 miles east of Sudlersville, northwest corner of crossroads, in base of chimney of private house; aluminum tablet stamped "66, 1904"	66. 108

BETTERTON (TOLCHESTER 30') QUADRANGLE.

[Latitude 39° 15'-39° 30'; longitude 76°-76° 15'.]

From Locust Grove west to Stillpond, thence southwest to Fairlee.	
Stillpond, at east side of F. H. Harper's store; iron post stamped "79 Balto"	Feet. 78. 813
Hanesville, at road west, in front of post office; iron post stamped "62 Balto"	62. 167
CHESTERTOWN (TOLCHESTER 30') QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 76°-76° 15'.]	
From Fairlee southeast via Chestertown and Starkley Corner to Roberts.	
Fairlee, 60 feet east of S. D. Seaverton's boot and shoe shop, in large rock; aluminum tablet stamped "78 Balto"	78. 54 3
Chestertown courthouse; aluminum tablet stamped "22 Balto"	21. 918
Starkley Corner, at northeast corner of crossroads; iron post stamped "54 Balto"	54. 794
From Fairlee south to Edesville, thence southeast to Centerville, thence east to Roberts.	÷
Edesville, just south of entrance to store of W. L. Sutton; iron post stamped "24 Balto"	24, 805
Hadaway's store, northeast of entrance, just under window; iron post stamped "18 Balto"	18. 738
Centerville, in southeast corner of courthouse yard, across path from State survey meridian monument; iron post stamped "60 Balto".	60. 70
ST. MICHAELS (CHOPTANK 30') QUADRANGLE.	
[Latitude 38° 45'-39°: longitude 76°-76° 15'.]	
• From Centerville south to Easton, thence east to Tanyard.	
Wye Mills, corner of Anthony's store, at the end of piazza; iron post stamped "21 Balto"	22. 121
Longwoods, at northeast corner of Callahan's store; iron post stamped "50 Balto"	51. 249
Easton, at south end of second step of courthouse; aluminum tablet stamped "37 Balto"	37. 545
OXFORD (CHOPTANK 30') QUADRANGLE	
[Latitude 38° 30'-38° 45'; longitude 76°-76° 15'.]	
From Easton south to Trappe.	
Trappe, corner of Easton Road and West Street, southeast corner of store of Clarck & Kirby, in foundation stone; aluminum tablet	,
stamped "55"	54. 746
From Aireys northwest to Cambridge, thence southeast to Bucktown.	
Cambridge, in southwest corner of courthouse, about 1 foot above ground; bronze tablet stamped "19 Balto"	20. 160
From Smithville northeast to Milton, thence southeast to Little Blackwater River.	
Milton (Woolford post office), north of road opposite road fork to Gum Swamp, in front yard of Baptist Church; iron post stamped "6 Adj"	5. 622

DENTON QUADRANGLE.

[Latitude 38° 45'-39°; longitude 75° 45'-76°.]

[Latitude 50 45 -55; longitude 15 45 -16.]	
From Goldsboro southwest along Pennsylvania R. R. to Queen Anne, thence south along highway to Griffin, thence east to Hobbs.	
Greensboro, 10 feet north of station, at edge of platform; iron post stamped "40 Balto"	Feet. 40. 817
Ridgely, in lawn at northeast corner of Pennsylvania R. R. station, 4 feet from platform; iron post stamped "69 Adj. 1903"	69. 070
Hillsboro, at northeast corner of H. Williams's dwelling, on north foundation wall; aluminum tablet stamped "47 Adj. 1903"	46. 599
Griffin, at northeast corner of yard to W. H. Robinson's dwelling; iron post stamped "42 Adj. 1903"	41. 376
Denton, in courthouse yard, on top of south meridian post; bronze tablet	37. 916
Denton, on southeast corner of courthouse; aluminum tablet stamped "43 Adj. 1903"	42. 703
From Hobbs southwest along highway to Tanyard.	
Williston, 30 feet east of southeast corner of store; iron post stamped "24 Adj. 1903"	24. 209
From Tanyard east along highway to American Corners, thence north to Hobbs.	
Tanyard, 1.5 miles west of, west end of Dover Bridge, at west end of C. H. Sinclair's house, north of road; iron post stamped "4 Balto". Newton, 50 feet east of store, at corner of crossroads; iron post	4. 789
stamped "40 Adj. 1903"	39. 678
Fowling Creek, in yard to W. H. Collins's dwelling, 50 feet west of M. E. Church; iron post stamped "48 Adj. 1903"	48. 567
American Corners, at crossroads, in corner of field in front of store; iron post stamped "55 Adj. 1903"	55. 107
Concord, 10 feet north of store, at southeast corner of yard to C. E. Todd's dwelling; iron post stamped "55 Adj. 1903"	55. 723
Hobbs, in southwest corner of yard to H. C. Hobbs's dwelling, 50 feet northeast of Hobbs station; iron post stamped "55 Adj. 1903"	54. 914
HARRINGTON QUADRANGLE.	
[Latitude 38° 45'-39°; longitude 75° 30'-75° 45'.] From Hobbs north along highways via Burrsville and Whiteleysburg to Greensboro.	
Burrsville, 500 feet north of forks of road east, west of street in front of William Outtens's blacksmith shop; iron post stamped "58 Adj. 1903"	58. 5 4 5
Whiteleysburg, at northeast corner of Anthony's store; iron post stamped "63 Balto"	63. 175
HURLOCK QUADRANGLE.	
[Latitude 38° 30'-38° 45'; longitude 75° 45'-76°.]	
From Tanyard southeast to Federalsburg, thence southwest to Williamsburg, thence south to Rhodesdale, thence southwest to Linkwood.	
Linchester, at west side of J. F. Tegar's store; iron post stamped "18 Balto"	18. 783
Federalsburg, at T. O. Jefferson's store; iron post stamped "10 Balto" Linkwood, in grass plat at intersection of roads at station; iron	10. 621
post stamped "21 Balto"	22. 234

"40 Adj"	Feet. 10. 61 9
Brookview, at southeast corner of W. D. Murphy's store, 300 feet west of Marshyhope Creek; iron post stamped "24 Adj"	24. 105
SEAFORD QUADRANGLE.	
[Latitude 38° 30'-38° 45'; longitude 75° 30'-75° 45'.]	
From State line near Oak Grove, Del., southwest along highways to Reliance, thence southeast to State line.	
Oak Grove, 1.1 miles south of, 10 feet east of highway, in root of cedar tree; nail marked "46"	15. 88
Winwright School, 0.1 mile south of, at crossroads, in root of oak	40. 85 38. 08
From Galestown north via Oak Grove to Federalsburg.	
Reliance, 1 mile south of, on top of Delaware-Maryland State line	-
monument; cross mark	12. 94
	15.064
Oak Grove, 0.25 mile west of, on top of Delaware-Maryland State line monument, 10 feet north of railroad; cross mark	17. 75
	16. 4
CRAPO QUADRANGLE.	
[Latitude 38° 15'-38° 30'; longitude 76°-76° 15'.]	
From Bucktown southeast to Bestpitch.	
Bucktown, in brick foundation at southwest corner of former post office; iron post stamped "4 Balto"	5. 310
From Bucktown southwest to Golden Hill.	
Bucktown, 4.5 miles west of, at southeast corner of road forks, 7 feet	
south of letter-box post of W. T. Elzy; iron post stamped "7 Adj"_Gum Swamp, north of road, at wood-road fork north, opposite church	6. 739
and schoolhouse; iron post stamped "3 Adj" Golden Hill, at road fork at Louis Keene's store; iron post stamped	3. 321
"3 Adj "	2.812
. From Golden Hill southeast to Wingate.	
Lakesville, 0.5 mile north of, 150 feet south of Nazareth M. E. Church, in northeast corner of schoolhouse foundation; bronze tablet stamped "3 Adj"	0 500
Wingate, at junction of roads 100 yards north of post office, at south- east corner of road, just outside of fence in front of Mr. Wingate's house; iron post stamped "3 Adj"	2. 589 2. 828
DRUM POINT QUADRANGLE.	
[Latitude 38° 15′-38° 30′; longitude 76° 15′-76° 30′.]	
From Golden Hill northwest to Smithville.	
Smithville, east of road in front of schoolhouse; iron post stamped	
"6 Adj"	5.886

NANTICOKE QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 75° 45'-76°.] From Bestpitch east via Drawbridge to Quantico. Drawbridge, in brick foundation on south side of small store; bronze Feet. tablet stamped "3 Balto"_____ 4.130 From Rhodesdale south to Vienna, thence southeast via Mardela Springs to Quantico. Vienna, in northwest face near north corner of brick house owned in 1902 by S. G. LeCompte, 60 feet southwest of road, 180 feet northwest of Nanticoke River, in foundation; bronze tablet stamped "14"_____ 14.288 Mardela Springs, 15 feet east of post-office building, 30 feet south of road, in grounds of J. L. Langdale; iron post stamped "27"_____ From Quantico south-southwest to Whitehaven, thence east to Loretto. Whitehaven, southwest side of house owned in 1902 by William

Dolby, in brick foundation; bronze tablet stamped "5"_____ SALISBURY QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 75° 30'-75° 45'.] From Delmar south along New York, Philadelphia & Norfolk R. R. to Loretto. Delmar, in northwest corner of Delmar National Bank; aluminum tablet stamped "Balto 56"_____ 57. 249 Salisbury, in southwest corner of front face of courthouse; aluminum tablet stamped "22 Balto"_____ 23.200 Eden, in northwest corner of foundation of post office; aluminum tablet stamped "29 Balto" 29.968 From Eden east to Longridge. Longridge, at southeast corner of former post office; iron post stamped 50, 727

"50 Balto "_____ From Quantico east to Salisbury.

Quantico, in corner of fence at Episcopal Church north of Quantico Street; iron post stamped "19 Balto"_____ 20, 227

PRINCESS ANNE QUADRANGLE. [Latitude 38°-38° 15'; longitude 75° 30'-75° 45'.]

From Loretto south along New York, Philadelphia & Norfolk R. R. to Kingston. Princess Anne, in front face of Somerset Savings Bank on Main street; bronze tablet stamped "17 Balto"_____ Westover, at intersection of New York, Philadelphia & Norfolk R. R. and road leading to Cottage Grove, opposite M. E. Miles's store; iron post stamped "15 Balto"_____

From Longridge south to Pocomoke City.

Whiteburg, at southeast corner of old store, inside of J. S. P. White's yard, in front of house; iron post stamped "30 Balto"_____

From Westover east via Pocomoke City to Goodwill.

Pocomoke City, in doorsill of Pocomoke City Hotel, corner Front and Market streets; aluminum tablet stamped "8 Balto"_____

26,685

4.576

18.130

14. 156

29,674

7.523

DEAL ISLAND QUADRANGLE.

[Latitude 38°-38° 15'; longitude 75° 45'-76°.]

[220,100,000 00 00 20 , 1028,1000 10 10 1]	
From Kingston southwest to Hopewell.	* .
Marion, at southeast corner of A. Davis's drug store on Main street, 60 feet east of railroad and 25 feet north of station; iron post stamped "7 Balto"	Feet. 7. 417
CRISFIELD QUADRANGLE.	
[Latitude 37° 45'-38°; longitude 75° 45'-76°.]	•
At Crisfield.	
Crisfield, J. W. Dishatoon's grocery store, face of doorsill; aluminum tablet stamped "5 Balto 1900" (elevation determined from Coast and Geodetic Survey tide gage)	4. 920
SNOW HILL QUADRANGLE.	
[Latitude 38°-38° 15'; longitude 75° 15'-75° 30'.]	:
From Franklin City northwest to Goodwill, thence northeast to Snow Hill, thence northwest via Coldbourne to Longridge.	
Franklin City, 1 mile north of, on outskirts of Greenbackville, southeast corner of Virginia-Maryland boundary stone; marked "7" Klej Grange, at intersection of roads from Mattaponi Landing and Snow Hill, on property of Drexel heirs, opposite former post office;	6. 72
iron post stamped "30 Balto"Snow Hill, in sill of front entrance porch of courthouse, on northeast	29. 283
side of steps; tablet stamped "21 Balto"	20. 552
Colbourne, opposite former post office, in northwest corner of J. E. Dickerson's front yard; iron post stamped "40 Balto"	40. 046
PITTSVILLE QUADRANGLE.	
[Latitude 38° 15'-38° 30'; longitude 75° 15'-75° 30'.]	
From Snow Hill northeast to Berlin.	
Newark, at southeast corner of Quenponco station of Philadelphia, Wilmington & Baltimore R. R.; iron post stamped "35 Balto"	35. 151
From Wango north to Melson, thence west to Delmar.	
Parsonsburg, at northeast corner of Riggin's grocery store, 100 feet north of road; iron post stamped "80"	79. 651
From Melson east via Twilley to Campbell.	
Twilley, in yard at northwest corner of C. W. Lynch's store; iron post stamped "40 Balto"	39. 978
OCEAN CITY QUADRANGLE.	
[Latitude 38° 15'-38° 30'; longitude 75°-75° 15'.]	
From Campbell south to Berlin, thence west to Wango.	
Campbell, inside of lot on the northwest intersection of roads, west of F. S. Campbell's store; iron post stamped "25 Balto"Berlin, on southwest corner of front step of Exchange Savings Bank;	24. 775
bronze tablet stamped "45 Balto"	44. 878

Belair, Elkton, Havre de Grace, and Parkton quadrangles.

BALTIMORE, CECIL, AND HARFORD COUNTIES.

The leveling was done in Elkton quadrangle in 1896 by O. L. Pettibone; in Havre de Grace quadrangle in 1899 by C. M. Smith; in Belair quadrangle in 1899 by Smith and George Bailey; in 1900 by J. W. Hodges; and in 1910 by C. H. Semper; in Parkton quadrangle in 1899 by Smith and Bailey; and in 1900 by Hodges, J. S. B. Daingerfield, and Hargraves Wood.

ELKTON QUADRANGLE.

[Latitude 39° 30'-39° 45'; longitude 75° 45'-76°.] From Bohemia Mills north to Elkton.

Chesapeake, entrance to George R. Ross's store, in north end of door-sill of hall; bronze tablet stamped "17"	Feet. 17. 800
Elkton, on top of step of south entrance to courthouse; copper bolt marked "U.S.G.S. b. m. 28 ft."	28. 438
Elkton, in doorsill of railroad station; copper bolt	30.00
From Elkton north to Appleton, thence west via Fair Hill ¹ to Calvert, thence south via Zion and Bayview ¹ to Northeast post office, thence southwest to Charlestown.	
Strayhorn's mills, 2 miles northwest of Appleton, southeast corner of stone wall, foundation of wagon shed; bronze tablet stamped "173"	173. 813
Fairview, 3 miles east of, in front of Mahon's barn; top of land-boundary stone in center of road	410. 40
Calvert, in churchyard; top of land-boundary stone	441. 77
Calvert, in northwest corner of John E. Crother's store; bronze tablet stamped "441"	441. 720
Bayview, southwest corner of crossroads, foundation of W. L. Jones's boarding house; bronze tablet stamped "385"	385. 300
Bayview, 1.5 miles south of, on land-boundary stone west of road; highest point	204. 45
Leslie, in front of Baltimore & Ohio R. R. station; top of rail Charlestown station, 50 feet north of, in northwest corner of north-	143. 4
west cornerstone of cattle guards; copper bolt stamped "41" Charlestown, 390 feet south of railroad station, northeast corner of	41. 540
box culvert, on coping stone; copper bolt (Philadelphia, Baltimore & Washington R. R. b. m. 50)	41. 20
HAVRE DE GRACE QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 76°-76° 15'.]	
From Aberdeen northwest to Carsins, thence north via Darlington to Conowingo.	-
Aberdeen, at east end of box culvert at milepost 65; copper bolt (Philadelphia, Baltimore & Washington R. R. b. m. 62)	67. 60

¹ Cross lines were run from Bayview via Pleasant Hill to Cowentown and from Pleasant Hill to Fair Hill, but on these no standard bench marks were set.

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	•
Aberdeen, in upper foundation stone of First National Bank of Aberdeen, southeast corner; aluminum tablet stamped "79 Balto". Darlington, 3 miles south of, in east foundation stone of Prospect	Feet. 80. 107
schoolhouse; bronze tablet stamped "345 Balto"	346. 113
Conowingo, southwest bridge seat of county bridge; copper bolt (Philadelphia, Baltimore & Washington R. R. b. m. 11)	69. 11
Conowingo, in northwest corner of post office, in foundation stone 2 feet from ground; aluminum tablet stamped "76 Balto"	76. 944
From Conowingo east to Rising Sun, thence south to Principio.	
Porter Bridge, in foundation stone 3 feet above ground, in southwest corner of J. W. Richard's mill; aluminum tablet stamped "89 Balto"	88. 987
Rising Sun, north side of Worthington's store, in foundation stone, 1	
foot above ground; aluminum tablet stamped "387 Balto"	387. 265
From Port Deposit northeast via Principle to Zion.	
Port Deposit, 0.9 mile south of, on northeast bridge seat of bridge 27; copper bolt (Pennsylvania R. R. b. m. 3)	5. 63
Port Deposit, in northwest corner foundation stone of Port Deposit post office and town hall building; aluminum tablet stamped "16 "Balto"	16, 431
Principio, in southwest corner of foundation stone of H. R. Lynch's store, 2.5 feet from ground; aluminum tablet stamped "302 Balto".	302. 327
From Principio south to Principio Furnace, thence southwest to Havre de Grace.	
Principio Furnace, 0.7 mile west of post office, stone monument east of road at southwest corner of property owned by W. H. Currier; marked on fence post "211"	212.00
Principio station, Philadelphia, Baltimore & Washington R. R., in doorsill; copper bolt (railroad b. m. 53)	67. 430
Havre de Grace, in southwest back wall of Susquehanna River Bridge; copper bolt (Philadelphia, Baltimore & Washington R. R.	01. 100
b. m. 57)	28. 92
Havre de Grace, in southwest corner of Philadelphia, Baltimore & Washington R. R. station, about 8 feet above tracks; aluminum tablet stamped "35 Balto"	35, 90
	00.00
BELAIR QUADRANGLE. ¹ [Latitude 39° 30'-39° 45'; longitude 76° 15'-76° 30'.]	
From Pylesville north along Pennsylvania R. R. to Cardiff.	
Pylesville, in northeast corner of Pyles Mill, 4 feet above ground, in	
foundation stone; aluminum tablet stamped "356"	357. 528
Pylesville, in front of station, top of rail; b. m	366. 7
Whiteford, 150 feet south of station, 30 feet north of road crossing, in	•
west guard rail over culvert; top of of north bolt marked "U. S. B. M. 504"	
	503, 76
· ·	503. 76 500. 4
Whiteford, in front of station; top of railCardiff, in front of station; top of rail	

¹ For elevations in Belair quadrangle in Pennsylvania see Bull. 515.

From Darlington west to Scarboro, thence south to Fountain Green.	
Allibone (Sandy Hook), 0.5 mile north of, in southeast corner of Mrs. Webster's spring house, 3 feet above ground; aluminum tablet stamped "209 Balto"	Feet. 210. 899
Balto." (Elevation by a spur west from Fountain Green)	395. 500
From Bradenbaugh along highway southeast to Federal Hill, thence northeast to point near Whiteford, then southeast via Macton to Scarboro.	
Federal Hill, in southeast corner of foundation stone of J. F. Devoe's house, opposite former post office; aluminum tablet stamped "590	
Balto"Pylesville, in foundation stone at northeast corner of Pyle's mill,	591. 227
about 4 feet above ground; aluminum tablet stamped "356 Balto"_Macton, 0.1 mile south of, in foundation stone at northwest corner of J. M. McNabb's house, 4 feet above ground; aluminum tablet	357. 528
stamped "249 Balto"	250.907
From Taylor east along highway via High Point to Hickory.	
High Point, in foundation stone on north side of High Point school-	
house; aluminum tablet stamped "536 Balto"	536.714
PARKTON QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 76° 30'-76° 45'.]	
From Bentley east along highway to Bradenbaugh.	
Bentley, 1,300 feet south of, in northwest wing wall of bridge 53; copper bolt (Pennsylvania R. R. b. m. 33)	501. 820
Bentley, 0.5 mile north of, in northwest corner of Bentley Methodist	501. 620
Church; bronze tablet stamped "607 Balto" (reported out of place	
December 11, 1907)Trump, in north foundation of M. S. Van Trump's store, at edge of	607. 729
cellar; bronze tablet stamped "716 Balto"	716.043
Shane, northwest corner of schoolhouse lot; stone marked "709" Bradenbaugh, in stone foundation of former post office, just to right	709. 00
of cellar entrance; bronze tablet stamped "Balto 604"	604. 879
From Sparks east along highway to Taylor.	
Sparks (Philopolis), 0.1 mile east of station, in southwest corner of	
Union Chapel, 1 foot above ground; bronze tablet stamped "Balto	
268"Taylor, in southwest corner of S. Phelps's blacksmith shop, about 2	268. 214
feet above ground; bronze tablet stamped "583 Balto"	583, 654
From Monkton west to Mount Carmel and return.	
Monkton, 0.5 mile north of, in center of east end of railroad box cul-	
vert; Pennsylvania R. R. b. m. 26 Mount Carmel, in foundation stone of porch at northeast corner of	317. 53
Miller's store and post office; bronze tablet stamped "674 Balto"	673. 812
From Sparks north to Bentley.1	
Whitehall, in northwest corner of post office, 2 feet above ground;	0.477 0.770
bronze tablet stamped "348 Balto"	347. 979

¹ Based on Pennsylvania R. R. elevation plus 0.39 foot.

Annapolis, Baltimore, Ellicott, Laurel, Relay, and Westminister quadrangles.

ANNE ABUNDEL, BALTIMORE, CARROLL, AND PRINCE GEORGES COUNTIES.

The elevations in the following list are based on various bench marks of the Baltimore & Ohio and the Pennsylvania railroads in this vicinity.

The leveling was done in Annapolis, Baltimore, Ellicott, and Westminster quadrangles in 1902 by W. C. Palmer and W. G. Coates; in Laurel and Relay quadrangles in 1904 and 1905 by J. W. Hodges and Ralph Hutchins; and in Laurel quadrangle in 1906 by G. S. Buckley.

BALTIMORE QUADRANGLE.

BALTIMORE QUADRANGLE.	
[Latitude 39° 15'-39° 30'; longitude 76° 30'-76° 45'.] At Catonsville.	
Catonsville, State Insane Asylum, east face of southeast wing; bronze tablet stamped "396 Balto"	Feet: 395. 800
At Pikesville.	
Pikesville, main building of Soldiers' Home, just east of main entrance, in southeast corner of foundation wall; bronze tablet stamped "516 Balto"	515. 918
From Sherwood east along highways via Towson to a point 4.6 miles east, thence via Lavender Hill (Parkville) to Lauraville.	•
Sherwood, 100 feet south of station, in west end of east center of arch culvert; copper bolt (Pennsylvania R. R. b. m.) Towson, on southeast cornerstone of courthouse porch; bronze tablet	284. 15
stamped "465 Balto"Parkville, Kelchensten's store and post office, northeast corner of	465. 221
· · · · · · · · · · · · · · · · · · ·	343. 278
wagon shop, on south end of doorsill; chiseled square	188. 83
From Timonium east along highways to Bosley, thence southwest to Towson.	
Timonium, 0.5 mile south of, 800 feet north of milepost 11, in west end of culvert; copper bolt (Pennsylvania R. R. b. m. 14)Bosley, on southeast corner of Valley Hotel; bronze tablet stamped	357.09
"223 Balto."	222. 825
At Mount Washington.	:
Mount Washington, bridge 5, over Western Run, at northeast side, on bridge seat; bronze tablet stamped "198 Baltimore 1900"	198. 744
From point 0.4 mile north of Reistertown east along highways via Shawan to Cockeysville.	•
Shawan, F. G. Wheeler's store and residence, on southeast corner of foundation wall; bronze tablet stamped "439 Balto"	438. 948
Cockeysville, 150 feet southeast of signal station, on northeast corner of culvert; copper bolt (Pennsylvania R. R. b. m. 17)	278. 68

ELLICOTT QUADRANGLE.

[Latitude 39° 15′-39° 30′; longitude 76° 45′-77°.]

(Distribute of 15 of 50, forgitude to 10 ii.)	
From Ellicott City along Baltimore & Ohio R. R. and highways via Hollofield and Rockdale to Pikesville.	·
Ellicott City, southwest corner of courthouse (south face); aluminum tablet stamped "233 Balto"Oella, at W. J. Dickey & Son's woolen mills, west of tracks, south	Feet. 233. 242
abutment of Baltimore & Ohio R. R. bridge over Patapsco River; chisel mark	149, 88
Oella, 1.6 miles northwest of, on southeast corner of west wing wall of Union Dam; copper bolt, stamped "187"	187. 609
Hollofield, 1.1 miles northwest of, on Quaker Hill, public school No. 2, on southwest corner of stone doorsill; chiseled shelf	456. 30
From Rockdale west along highways to Woodstock, thence north to Reisterstown.	
Woodstock College, west of main entrance, over small window, on center stone; aluminum tablet stamped "415 Balto"Reisterstown, northwest corner stone of Russel's store; aluminum	414. 987
tablet stamped "735 Balto"From Woodstock southwest along highways to West Friendship, thence north via Sykesville to Gamber, thence east to point 3.8 miles south of Reisterstown.	735. 258
West Friendship, just west of post office, on milestone 19 north of Frederick pike; bronze tablet stamped "476 Balto"Sykesville, in second step of Sykesville Bank; bronze tablet stamped	476. 023
"383 Balto"Gamber, on southeast corner of Mount Pleasant M. E. Church; bronze tablet stamped "606 Balto"	382. 795 605. 568
WESTMINSTER QUADRANGLE.	200.
[Latitude 39° 30′-39° 45′; longitude 76° 45′-77°.]	
From Reisterstown north along highways via Woodensburg and Fowblesburg to Hampstead, thence east to Mount Carmel.	
Woodensburg, northeast corner of Methodist Church; top of corner stone, marked "A. D. 1888"	703. 16
Balto"Hampstead, residence owned by C. W. Murray, in southwest corner of foundation wall; bronze tablet stamped "913 Balto"	702. 771 913. 271
From Hampstead along highways to Melrose, thence east to Rockdale, thence south to Mount Carmel.	*
Manchester, 0.5 mile northwest of, just over center of stone culvert at first stream to right; square cut on stoneRockdale, on northwest corner of paper mill; bronze tablet stamped	857. 37
"510 Balto" From Woodensburg southwest along highways to Finksburg, thence northwest to Westminster.	508. 504
Westminster, on fifth step of main entrance to courthouse; bronze tablet stamped "774 Balto"	774. 337

ANNAPOLIS QUADRANGLE.

[Latitude 38° 45′-39°; longitude 76° 15′-76° 30′.]

At Annapolis.1

Annapolis, at Naval Academy, 8 feet southwest of observatory building; top of stone pier (C. & G. S. b. m. "Obs")Annapolis, corner of State House; aluminum tablet stamped "58	Feet. 23. 012
Balto"	57.546
RELAY QUADRANGLE,	
[Latitude 39°-39° 15'; longitude 76° 30'- 76° 45'.]	
At Winans.	
Winans, 780 feet south of Pennsylvania R. R. bench mark No. 101, east side of Baltimore & Ohio R. R. bridge	36. 766
From Relay east along highway to Pumphrey, thence along Maryland Electric Ry. to Elvaton, thence southwest along highway to Bowie.	
Pumphrey, in center of north foundation wall of station and store building; aluminum tablet stamped "51 Adj. 1903"	51. 153
Glenburnie, 1.5 miles northeast of highway bridge over Furnace Branch, on top of northwest retaining wall; aluminum tablet stamped "8 Adj. 1903"	7. 617
Glenburnie, on northwest abutment of Furnace Branch bridge; cut (Md. Geol. Survey b. m. 9)	7. 511
Elvaton, in corner of dwelling 50 feet west of store; copper nail (Md. Geol. Survey b. m. 12 B)	75. 979
Elvaton post office, 100 feet south of station, in north foundation of water tank; aluminum tablet stamped "69 Adj. 1903"	69. 163
Benfield, in southeast foundation wall of D. L. Stone's house; aluminum tablet stamped "110 Adj. 1903"	109. 197
Waterbury, 0.5 mile north of, in east wall of railway bridge over highway; aluminum tablet stamped "92 Adj. 1903"	91. 504
Conaways, 0.3 mile northwest of highway bridge over Little Patuxent River, in southeast abutment wing wall; aluminum tablet stamped	
"53 Adj. 1903"Conaways, 4 miles northwest of Philadelphia, Baltimore & Washington R. R. bridge over Little Patuxent River, in south abutment;	52. 431
copper bolt	74. 945
At Jones Station on Maryland Electric Ry.2	
Jones, in southeast corner of foundation of Mr. Jones's warehouse; aluminum tablet stamped "69 Adj. 1903"	68. 100
At Odenton and Severn stations on Philadelphia, Baltimore & Washington R. R.	
Odenton, inside yard at station, northwest corner; iron post stamped "160 Adj. 1903"	160. 089
Severn, 20 yards east of station, 410 feet south of milepost 110, east of track; iron post stamped "167 Adj. 1903"	166. 820
1 Coast and Geodetic Survey bench mark "Woods" was checked by two i	ndependent

¹ Coast and Geodetic Survey bench mark "Woods" was checked by two independent lines from bench mark "Obs" and appears to have settled 0.34 foot; the doorstep was badly out of plumb.

² Set from adjusted Maryland State Geological Survey levels.

At Dorsey.

Dorsey, east of railroad, south of highway, in west foundation wall, at northwest corner of store; aluminum tablet stamped "121 Adj. 1903"	Feet. 120. 500
LAUREL QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 76° 45'-77°.]	
At Bowie.	
Bowie, in south foundation wall of Imperial Hotel; aluminum tablet stamped "154 Adj. 1903"Bowie, on stone east of tower east of Philadelphia, Washington & Baltimore R. R. track; copper bolt	153. 820 148. 600
Along Baltimore & Ohio R. R.1	
Laurel, on southwest corner of Main Street and Washington Avenue, in east face at northeast corner of large brick store building, 3 feet above ground; aluminum tablet stamped "156 Adj. 1913." Waterloo, at northeast corner of crossroads, in southeast corner of south foundation wall of house; aluminum tablet stamped "232	155. 484
Adj. 1903"	231. 551
Annapolis Junction, overhead bridge, in east foundation wall of north abutment; copper bolt	174. 540
Annapolis Junction, warehouse of Alphonso Latchford, in southeast face of central brick foundation pier; aluminum tablet stamped "171 Adj."	170. 749
From Ellicott City southwest along highway to Clarksville.	
Columbia, in south foundation wall of post-office building; aluminum tablet stamped "402 Adj. 1904"	402. 378
Elioak, in southeast corner of foundation wall of store and post office; aluminum tablet stamped "433 Adj. 1904"	432. 697 486. 700
From Ammendale west along highway to Fairland, thence north to Burtonsville, thence northwest to Ashton, thence northeast to Clarksville.	
Ammendale, between Baltimore & Ohio R. R. tracks, opposite mile- post marked "Baltimore 26 miles;" vertical rail section Ammendale, in southeast corner of Lasalle Academy building;	137. 839
aluminum tablet stamped "182"Ammendale, 3.2 miles northwest of, at main crossroads in woods,	181. 970
15 feet east of roads; iron post stamped "279"Fairland, 50 feet east of road, southwest corner of frame house, in	278. 918
foundation; aluminum tablet stamped "414"Burtonsville, 0.3 mile northwest of, northwest corner of Liberty	413. 896
Grove Church; aluminum tablet stamped "482"Spencerville, 0.1 mile west of, 60 feet south of road, 2 feet from northwest corner of house, in stone; aluminum tablet stamped	481. 889
"516 B"	516. 364

Ashton, 2.4 miles northeast of, Snell Bridge over Patuxent River, at south end of west abutment, in bridge seat; aluminum tablet stamped "294"______

Feet. 293, 476

Washington quadrangle.

MONTGOMERY COUNTY.

The elevations in the following list were determined by spirit leveling extended from the precise-level line run from Great Falls, Md., to Lock 8 along the Chesapeake & Ohio Canal. They are based upon Coast and Geodetic Survey bench mark F at Great Falls, the bottom of a square cut on the west wall of Lock 20, 0.2 meter west of edge and 1.65 meters south of north gate. The accepted elevation of this mark is 166.592 feet above mean sea level. The main line along the Chesapeake & Ohio Canal below Lock 8 was leveled twice with a Y level in one direction and once in the opposite direction with an alidade used as a level. Spur lines were run with a telescopic alidade; single to determine water-surface elevations, and double where gages were established.

The leveling was done in December, 1910, by C. E. Cooke.

WASHINGTON QUADRANGLE.1

[Latitude 38° 45'-39°; longitude 76° 45'-77° 15'.]

From Lock 8 southeast along	Chesapeake	& Ohio	Canal t	o Chain	Bridge	(double
-	run level	line).				

Lock 8, on north wall, on north capstone of east end; bronze tablet stamped "69 Prim. Trav. Sta. No. 3"Lock 7, 0.4 mile southeast of, 150 feet southeast of little cottage with green blinds, 20 feet south of towpath, 3 feet above ground, in arched root of tree; copper nail	Feet. 69. 034 53. 56
Lock 7, 0.9 mile southeast of, 10 feet west of towpath, in stump; copper nail	53, 10
Lock 7, 1.1 miles southeast of, in stump; copper nail	54. 16
Lock 5, 1,000 feet south of, 20 feet west of towpath, in small stump; copper nail	41. 55
Elevations along Potomac River determined by spur lines (double run where	
gages are connected with).	
gages are connected with). Lock 14, 31 feet upstream from gage, on east bank of river, on rock; chiseled square	49. 79
Lock 14, 31 feet upstream from gage, on east bank of river, on rock; chiseled squareLock 9, 0.2 mile southeast of, on west side of towpath, in stub of small	49. 79 69. 49
Lock 14, 31 feet upstream from gage, on east bank of river, on rock; chiseled square Lock 9, 0.2 mile southeast of, on west side of towpath, in stub of small tree; copper nail Lock 8, 6.2 feet upstream from gage on east bank of river, in limb of	69. 49
Lock 14, 31 feet upstream from gage, on east bank of river, on rock; chiseled square————————————————————————————————————	69. 49 50. 61
Lock 14, 31 feet upstream from gage, on east bank of river, on rock; chiseled square	69. 49

¹ For elevations in Washington quadrangle in Virginia see Bull. 562.

Washington quadrangle.

PRINCE GEORGES COUNTY.

The elevations in the following list are based upon bench marks of the Pennsylvania R. R. at Bennings, D. C., and bench mark G of the Coast and Geodetic Survey at Alexandria, Va.

The leveling was done in 1912 by R. C. Seitz.

WASHINGTON QUADRANGLE.

From Bennings, D. C., north to Chesapeake Beach R. R., thence east along said railroad 5.5 miles to Ritchie, thence south along highways through Forestville and Camp Springs to Clinton, thence west through Friendly to Broad Creek, thence north and west to Alexandria, Va.

	Note.—An error of 0.44 foot was distributed in this line. Milepost marked "C. J. 3 M," about 700 feet east of, in support of	Feet.
	overhead bridge; copper nail painted "150.2" Milepost marked "C. J. 4 M," in south side at base; spike painted "158.2"	150. 15 158. 08
	Milepost marked "C. J. N. 5 M"; spike in base painted "190.8" Chesapeake Junction, 2.8 miles east of, railroad bridge over private	190. 73
	road, in east end of south guard rail; copper nail painted "163.7"—Ritchie, in front entrance to general store; aluminum tablet stamped "Prim. Trav. Sta. No. 2, 165, 1912, SZ"————————————————————————————————————	163. 62 165. 08
	Ritchie, 0.7 mile south of, west of road and about 50 feet north of gate, in stump of fallen tree; copper nail painted "261.9"	201. 78
	Forestville, in southwest angle of crossroads, in root of maple tree; spike painted "280.1"	279. 99
•	Forestville, 1.75 miles south of, in west coping of small concrete culvert; aluminum tablet stamped "252, 1912, SZ"Forestville, 2 miles south of, in southwest angle of crossroads, in root	251. 891
	of oak tree; copper nail painted "268.1" Camp Springs, 0.75 mile northeast of, at T road west, 25 feet west of	267. 88
	house, in top of stump; copper nail painted "276.8"Camp Springs, southwest corner of crossroads, in coping of culvert;	276. 58
	aluminum tablet stamped "Prim. Trav. Sta. No. 3, 266, 1912, SZ" Camp Springs, 1.5 miles south of, 200 feet north of T road east, in	265. 56
	west coping of concrete culvert; chiseled square painted "248.9" Clinton, 300 feet north of crossroads, in coping at north end of concrete culvert; aluminum tablet stamped "245, 1912, SZ"	248. 64 244. 46
	Clinton, 0.8 mile west of, in west end of box culvert; spike painted "238.9"	238. 68
	Clinton, 2 miles southwest of, in north angle of T road northwest, in root of small cedar tree; copper nail painted "246.1"Clinton, 2.8 miles west of, just east of Tinkers Creek, on south side	245. 83
	of road, in top of fence post; copper nail painted "136.8" Friendly, 1.5 miles northeast of, on north side of road at T road	136. 28
	north, about 35 feet northeast of mail box, in small cedar near fence; copper nail painted "239.8"	239. 26
	Friendly, 1.5 miles northeast of, in triangular plot between roads, at T road north; iron post stamped "242, 1912"	241. 389
	chiseled square painted "231.0"	230. 37

New Glatz, 1.25 miles south of, at T road east, in west end of small	Feet.
bridge; nail painted "10.4"	9.54
New Glatz, 1.25 miles south of, bridge over Broad Creek, in south	
end of west abutment; aluminum tablet stamped "17, 1912, SZ"	16. 183
Alexandria, Va., opposite, on east side of Potomac River, at water's	
edge, in top of D. C. line post; cross cut	2.94

Indian Head, Nanjemoy, and Stafford quadrangles. CHABLES AND PRINCE GEORGES COUNTIES.

The elevations in the following list were determined by primary levels connecting Coast and Geodetic Survey gage bench marks at Clifton, Marshall Hall, and Posey's wharf, Md., and accord approximately with mean sea level.

The leveling was done by A. F. McNair in 1911.

INDIAN HEAD QUADRANGLE.1

[Latitude 38° 30'-38° 45'; longitude 77°-77° 15'.]

From Marshall Hall south along highway to point near Port Tobacco, thence west to Posey's wharf.

Marshail Hall, near east side of wharf, in top of stone abutment, about 3 inches from northeast corner; cross cut (C. & G. S. b. m.) Marshall Hall, 0.9 mile south of, on west side of road at three	Feet. 2. 73
corners, in root of oak tree; copper nail stamped "45.5" Marshall Hall, 1.9 miles south of, on east side of road at three	45. 49
corners, in root of oak tree; copper nail stamped "39.1" Marshall Hall, 2.7 miles south of, at east end of Oswold Thee's house, in north side of brick chimney, 3 feet above ground; aluminum	39.06
tablet stamped "25 Md" Marshall Hall, 3.1 miles south of, on east side of road, middle of hill,	25. 317
in root of oak tree; copper nail stamped "120"	120.33
Pomonkey, 2.3 miles north of, on east side of road at three corners, in root of pine tree; copper nail stamped "185"	185. 04
Pomonkey, 1.4 miles north of, on east side of road at three corners, in root of stump used as corner fence post; copper nail stamped "180.3"	180. 28
Pomonkey, 1.1 miles north of, on east side of road, 150 feet north of intersection at four corners, in root of oak tree; copper nail stamped "179.3"	179. 28
Pomonkey, 0.5 mile north of, on east side of road at three corners, in	
root of pine tree; copper nail stamped "174.0"Pomonkey, southwest corner foundation pier to schoolhouse, in west	173. 97
side of; aluminum tablet stamped "168 Md"	168. 453
Pomonkey, near post office, on east side of road at three corners, in root of tree; copper nail stamped "161.6"	161. 62
Pomonkey, forks in road south of, west side of road between store and blacksmith shop; chiseled cross on bowlder, marked "175.3"	175. 29
Pomonkey, 1.8 miles south of, at top of hill, on east side of road, in root of oak tree; copper nail stamped "172.3"	172. 32

¹ For elevations in Indian Head quadrangle in Virginia see Bull. 562.

Pomonkey, 3 miles south of, on east side of road at three corners, in	Feet.
root of oak tree; copper nail stamped "150.2"	150.16
Pomonkey, 3.9 miles south of, in east side of brick stable belonging to	
Christian Jensen, at southeast corner, 4 feet above ground; aluminum tables stemped (159 Md.)	151. 610
num tablet stamped "152 Md"Pomonkey, 5.3 miles south of, west side of road, in root of oak tree, 5	101.010
feet from trunk; copper nail stamped "182.7"	182. 70
Pomonkey, 6.4 miles south of, roads east-west-north, in root of oak	102. 10
tree on south side of road; copper nail stamped "170"	170. 02
Pomonkey, 7.5 miles south of, roads north-south-west, on east side	
of road at edge of woods, in root of oak tree; copper nail stamped	
"162.1"	162. 12
Port Tobacco, 1.6 miles west of, 1.1 miles north of four corners on	
Port Tobacco-Pisgah road, on west side of road, in woods; chiseled	
cross on top of bowlder, marked "151.4"	151. 34
Port Tobacco, 2.4 miles west of, in southwest corner of burned brick	•
building formerly used as county house, 5 feet above ground;	
aluminum tablet stamped "181 Md"	180. 590
Port Tobacco, 2.5 miles west of, on north side of road at four cor-	
ners, in root of gum tree; copper nail stamped "171.1"	177.06
Port Tobacco, 3.6 miles west of, on south side of road, in root of	•
large water-oak tree; copper nail stamped "166.5"	166.48
Pisgah, 2.5 miles east of, on south side of road at three corners,	
in root of oak tree; copper nail stamped "163.7"	163.72
Pisgah, 2 miles east of, on east side of road at three corners,	
in root of small oak tree; copper nail stamped "150"	149, 82
Pisgah, 1.4 miles east of, in south side of southeast corner founda-	
tion pier to Smith's Chapel; aluminum tablet stamped "159 Md"	158. 961
Pisgah, 0.4 mile east of, on north side of road at three corners, in	
root of water-oak tree; copper nail stamped "121.8"	121. 78
Pisgah, in front of Hotel Braganier, in root of oak tree; copper	
nail stamped "123.6"	123 . 55
Pisgah, 0.8 mile west of, on south side of road at three corners, in	
root of red-oak tree; copper nail stamped "121.8"	121. 80
Pisgah, 2.6 miles west of, at intersection of roads, in root of oak tree;	00.01
copper nail stamped "86"	86. 81
Pisgah, 2.9 miles west of, 15 feet south of center of road, in bowlder;	04 000
aluminum tablet stamped "34 Md"	34. 398
Posey's wharf, 3.4 miles northeast of, on north side of road at	105 05
three corners, in stump; copper nail stamped "105.9" Posey's wharf, 2.2 miles northeast of, on west side of road at	105. 85
three corners, in root of oak tree; copper nail stamped "65.1"	65. 01
Posey's wharf, 1.5 miles northeast of, at church at three corners,	00. 01
in root of pine tree; copper nail stamped "59.8"	59. 75
Posey's wharf, 1.1 miles northeast of, on west side of road at three	00.10
corners, in stump; copper nail stamped "12"	12. 74
Posey's wharf, 35 paces east of shore end of wharf, in horizontal	
cut in root of maple tree, with three nails driven in flush (C. &	
G. S. No. 2.)	2. 26
Posey's wharf, 16 paces southwest of shore end of wharf; horizontal	
cut in root of cherry tree, with three nails driven in flush (C. &	
G. S. No. 1)	7. 590

From point 2 miles east of Pisgah south 1.75 miles along highway (part of line to Clifton Beach).	
Hilltop, 1.9 miles north of, on west side of road at three corners, in top of old stump; copper nail stamped "140.4"	Feet. 140. 41
From point 2.5 miles west of Port Tobacco south along highway 0.8 mile (part of double-run spur line to McConchie).	
McConchie, 0.2 mile north of, at intersection of roads; painted square on large bowlder, marked "162.5"	162. 52
NANJEMOY QUADRANGLE.	
[Latitude 38° 15'-38° 30'; longitude 77°-77° 15'.]	
From point near Hilltop west along highway to Ironsides, thence south to Grayton, thence to Clifton Beach.	
Hilltop, 1.4 miles north of, in front of store at three corners, in root of water-oak tree; copper nail stamped "147.3"Hilltop, in house owned by Fred Davis, in south side of brick chimney, about 4 feet above ground; aluminum tablet stamped "133 MA"	147. 24
Hilltop, 0.7 mile southwest of, south side of road, at three corners, in top of post used in retaining wall; copper nail stamped "35.2"—Hilltop, 1.7 miles west of, on north side of road at three corners,	132. 804 35. 21
in root of stump; copper nail stamped "138.9" Hilltop, 2 miles west of, on southwest corner of intersection of roads, in root of small pine stump; copper nail stamped "142.6"	138. 91 142. 55
Ironsides, in front of store, in root of small tree; copper nail stamped "126.0"	125. 97
Ironsides, 0.8 mile west of, on south side of road at three corners, in root of small tree; copper nail stamped "135.4"	135. 37
Ironsides, 1.1 miles southwest of, in woods, on east side of road at three corners, in root of stump; copper nail stamped "139.0"	138. 94
Mount Hope, 0.5 mile north of, on west side of road at angle, in root of double red-oak tree; copper nail stamped "119.1"	119.09
Bethel, near Mount Hope Church, in south side of southeast corner of schoolhouse; aluminum tablet stamped "113 Md" Mount Hope, 1.6 miles south of, on south side of road, in root of red-	113. 094
oak tree; copper nail stamped "84.5"	84. 51
ners, in root of cedar tree; copper nail stamped "74.8"Cross Roads, at four corners, in northeast corner of roads, in root of	74. 76
water-oak tree; copper nail stamped "81.3"	81. 32 70. 138
Grayton, 1 mile south of, in forks of road, in root of oak tree; copper nail stamped "94.4"	94.38
Clifton Beach, 3.2 miles east of, 150 feet west of run, on north side of road, in root of oak tree; copper nail stamped "20.7"Clifton Beach, 2.7 miles east of, 300 feet east of three corners, on	20. 63
south side of road, in root of large oak tree; copper nail stamped "77.5"	77 . 50
Clifton Beach, 2 miles east of, on south side of road at intersection;	74, 65

769.045

	PRIMARY LEVELING.	29
	From point southwest of Port Tobacco along highway to point 1.8 miles south of McConchie (part of double-run spur line).	
	McConchie, 0.1 mile south of, on west side of road at three corners, in root of gum tree; four nails marked "144.4"	Feet. 144. 29
	McConchie, 1.8 miles south of, in middle of south side of house owned by W. J. Smythe, 4 feet above ground; aluminum tablet stamped "151 Md. 1911"	150. 809
	STAFFORD QUADRANGLE.	
	[Latitude 38° 15'-38° 30'; longitude 77° 15'-77° 30'.]	
	At Clifton Beach.	
	Clifton Beach, 208 feet northeast of shore end of old wharf, in root of small cedar tree; horizontal cut (C. & G. S. b. m. No. 2)	5. 860
	Ijamsville, Mount Airy, Rockville, and Seneca quadrangles.	
	FREDERICK, HOWARD, AND MONTGOMERY COUNTIES.	
	The elevations in the following list are based on Baltimore R. R. precise-level bench marks. The leveling in Ijamsville, Mount Airy, and Seneca quadwas done in 1906 by R. A. Farmer; in Rockville quadrangl in 1904 by Ralph Hutchins and partly in 1906 by T. A. Gr. W. O. Tufts.	drangles e partly
	MOUNT AIRY QUADRANGLE.	
	[Latitude 39° 15'-39° 30'; longitude 77°-77° 15'.]	
	From Cedar Grove northeast along highway to Mount Airy.	
	Damascus, Dr. B. F. Lansdale's house, southeast corner of foundation; tablet stamped "845"	Feet. 845. 632
	Ridgeville, Nelson's Hotel, southeast corner of coping of yard; tablet stamped "817"	817. 094
	From Mount Airy northwest along highway to crossroads 1 mile north of New London, thence north to Libertytown, thence east to Winfield, thence south to Woodbine.	
	Libertytown, Mrs. Carter's house, northeast corner of foundation; tablet stamped "523"	523. 854
	Unionville schoolhouse, 8 feet east of main entrance, in stone foundation; tablet stamped "450 Maryland"Taylorsville, 1.5 miles west of, in south wall of Franklin schoolhouse;	450. 030
	primary-traverse station 46A, stamped "882"Taylorsville schoolhouse, at northeast corner, in foundation; alu-	882. 782
:	minum tablet stamped "819"Day, in east foundation of church, at southeast corner, tablet	819. 523

From Woodbine south along highway to Unity.

stamped "768"

Lisbon, on east side of wagon road, at southwest corner of Mr.	
Lascey's house, in foundation; tablet stamped "591"	591.972
Florence, northeast corner of store, in foundation; tablet stamped	
" 627 "	627.846

IJAMSVILLE QUADRANGLE.

[Latitude 39° 15'-39° 30'; longitude 77° 15'-77° 30'.]

From Clarksburg northwest to Frederick Junction.

Hyattstown, south abutment of bridge over Little Bennetts Creek, southeast corner of bridge seat; tablet stamped "362"	Feet. 361. 780
Urbana, near northwest corner of former post office, in west wall; tablet stamped "468"	467. 661
Frederick Junction, highway bridge over Monocacy River, southwest	101.001
corner of south abutment, in coping stone; tablet stamped "253"	253.067
Frederick Junction, Baltimore & Ohio R. R. bridge over Monocacy River, east abutment, northeast mud wall; copper bolt	266. 147
From Frederick Junction north to Charlesville, thence east through Walkers- ville and Mount Pleasant to Libertytown.	
Frederick, 300 feet east of station, about 15 feet south of track, in natural rock; copper nail (Baltimore & Ohio R. R. precise-level	
mark)	289. 294
Frederick, south side of Church Street, between North Market and Court streets, Jacob Rohrback's residence and office, stoop to office,	
top step, southwest corner; tablet stamped "296"	295. 665
Charlesville, bridge over Tuscarora Creek, southwest coping stone	
of south abutment; tablet stamped "367" Walkersville, 2 miles west of, bridge over Monocacy River, north end	366. 705
of center pier, primary-traverse station 547; tablet stamped "283"	282. 931
Walkersville, Walkersville Savings Bank, in front wall, 2 feet below	
window sill; tablet stamped "320" Mount Pleasant, Clayton Zimmerman's brick store, 2 feet below	319.664
window sill; tablet stamped "475"	475, 191
Libertytown, 2.5 miles southwest of, crossroads at Chestnut Grove	•
School No. 5, south foundation wall near west corner of school-house, 0.5 foot above ground; tablet stamped "619"	618. 847
	010.011
At crossroads 1.2 miles north of New London.	
New London, 1.2 miles north of, at northwest corner of road crossing	•
on Libertytown pike, in flint rock 1 by 2 by 3 feet; aluminum tablet	E10 070
stamped "519"	518. 970
ROCKVILLE QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 77°-77° 15'.]	• •
From Ashton west to Sandy Spring and return.	
Sandy Spring, 30 feet south of road, granite slab at entrance to the office of the Mutual Fire Insurance Co.; aluminum tablet stamped "484"	483, 735
From Clarksville west along highway to Germantown.	•
Clarksville, 3.9 miles southwest of, north of highway, at Patuxent River, 50 feet west of center of bridge, 2.5 feet from east end of	
large flat rock; aluminum tablet stamped "316 Adj. 1904"	315. 800
Unity, 35 feet west of former post office, south of highway, in north-	
east foundation wall of Ernest Gregg's tenant house; aluminum	590 000
tablet stamped "520 Adj. 1904"	520.000

Unity, 2.1 miles southwest of, at Hawlings River, in west end of northeast abutment, on bridge seat, 1.7 feet below floor surface; aluminum tablet stamped "457 Adj. 1904"	Feet. 456. 962
Adj. 1904"Goshen, in southwest corner of foundation wall of store; aluminum	615. 100
tablet stamped "425 Adj. 1904"	425.069
Brink, in east foundation wall of W. T. Dowden's residence; aluminum tablet stamped "627 Adj 1904" (primary-traverse station)	627. 129
From Brink north to Cedar Grove.	
Cedar Grove, in foundation at northwest corner of Upper Seneca Baptist Church, 1 foot above ground; tablet stamped "637"	637. 199
From Kensington north along highway by an indirect route to Olney, thence northwest to Laytonsville.	
Garrett Park, 60 feet south of road crossing; top of west rail Wheaton, on south side of store kept by J. C. Cissel; aluminum tablet	300. 0
stamped "459"Layhill, in south face at southeast corner of foundation of store kept	459. 090
by W. P. Beal; aluminum tablet stamped "438"	437. 640
Norbeck, south of road, west of forks, in north foundation wall of Arthur Stonestreet's store; aluminum tablet stamped "499"Olney, near southwest corner of town hall, in west face; aluminum	498. 958
tablet stamped "544"	543. 473
Olney, 2.6 miles northwest of, at road forks, in east face at northeast corner of house owned and occupied by Thomas Griffit; aluminum	
tablet stamped "523"	522. 675
From Rockville southwest along highway to Great Falls.	
Rockville, top of corner stone in north side of courthouse, 12 feet east of entrance, in granite foundation, 1 foot below water table;	
aluminum tablet stamped "451"Rockville, 3.9 miles southwest of, at road forks east, in chimney on	450. 986
north side of schoolhouse; aluminum tablet stamped "420" Great Falls, on the capstone near west end of south wall of Lock 20,	420.060
Chesapeake & Ohio Canal, 0.2 meter from extreme north and 0.45	
meter from extreme east edge of lock, 1.65 meters from west gate; bottom of square (C. & G. S. b. m. F)	166. 592
At Washington Grove and Gaithersburg.	
Washington Grove, between tracks, opposite milepost 21; rail (Baltimore & Ohio R. R. b. m.)	518. 824
Gaithersburg, R. A. Young's store, northwest corner Fredericksburg avenue and Chestnut street; primary-traverse tablet stamped	
"508"	507. 811

SENECA QUADRANGLE.1

[Latitude 39°-39° 15'; longitude 77° 15'-77° 30'.]

At Germantown.

Germantown, 50 feet south of bridge over railroad, west of road, in east face at northeast corner of house occupied by C. E. Keeper and owned by H. D. Waters; aluminum tablet stamped "449" Germantown, in front of station; top of rail	Feet. 449. 287 429. 50
From Gaithersburg southwest to Darnestown, thence west to Poolesville, thence north to Barnesville.	
Darnestown, Windsor store, in brick foundation to cellar door; tablet stamped "436"	435, 800
Dawsonville, in north wall of Allnut ice house; tablet stamped "305"_Poolesville, in south wall of T. R. Hall's brick house; tablet stamped	305, 200
"415"From Poolesville southwest to Edwards Ferry.	414. 589
Edwards Ferry, Chesapeake & Ohio Canal, southwest corner, Lock 25; primary-traverse station 88, tablet stamped "207"	206. 365
From Brink northwest to Clarksburg.	
Clarksburg, near southwest corner of M. E. Church South, in west foundation wall; aluminum tablet stamped "658"	658. 452
From Washington, D. C., to Washington Junction.	
Milepost "W. 37," 225 feet west of, at southeast corner of culvert; copper bolt (b. m. 38)	284. 448
Tuscarora, 150 feet west of milepost 39, south end of east wall of box culvert; copper bolt (b. m. 40A)	226. 092
Antietam and Martinsburg quadrangles.	

Antietam and Martinsburg quadrangles.

FREDERICK AND WASHINGTON COUNTIES.

The following elevations are based on precise-level lines of the Coast and Geodetic Survey and the Baltimore & Ohio R. R.

The leveling was done mostly in 1907 by W. R. Winstead; but some work was done in each quadrangle in 1908 by J. M. Harris.

ANTIETAM QUADRANGLE.

[Latitude 39° 15'-39° 30'; longitude 77° 30'-77° 45'.]

From Harpers Ferry east along Baltimore & Ohio R. R. to Brunswick, thence north along highway to Petersville, thence east to Jefferson, thence south to Point of Rocks.

Feet. 280. 268

270.0

^{. &}lt;sup>1</sup> For elevations in Seneca quadrangle in Virginia see Bull, 562.

Sandy Hook, 0.5 mile east of, 170 feet west of milepost B. 80, in center of double track: iron rod with "X" on top driven in ground, marked "264 U.S.B.M."	Feet. 264. 14
Weverton, 125 feet west of station, 50 feet west of road crossing, 15 feet north of track, in southwest pillar of Baltimore & Ohio R. R.	
water tower; aluminum tablet stamped "Maryland 260 Adj" Weverton, 2.8 miles east of, 1,000 feet west of Brunswick station, on northeast corner of north abutment of culvert; point marked "250	259. 595
U.S.B.M." Brunswick, north track at street crossing; top of north rail marked "249.5 U.S."	249. 60 249. 2
Brunswick, opposite post office, in southeast corner of Savings Bank; aluminum tablet stamped "Maryland 266 Adj"Petersville, 0.2 mile east of, at public road fork, in front face (east	266. 236
side) of Lutheran Church; aluminum tablet stamped "Md. 524 Adj"	523. 325
Petersville, 2.4 miles east of, at foot of hill, south side of east end of covered bridge over Catoctin Creek, on top of large iron bolt; point	
marked "291 U.S.B.M." Jefferson, 300 feet west of electric car station, at Frederick-Picke-Catoctin road fork, northwest corner of schoolhouse; aluminum	290. 54
tablet stamped "Maryland 583 Adj" Jefferson, 1.6 miles south of, at foot of hill at road fork to Catoctin station, in southwest abutment of iron bridge over stream; large	582. 787
iron bolt marked "417"———————————————————————————————————	416. 58
marked "454"	453. 8 5
stream; aluminum tablet stamped "Maryland 389 Adj"	388. 358
From Weverton along highway north to point 2.7 miles north of Rohersville, thence east to Middletown, thence south to Jefferson.	
Weverton, 1.7 miles north of, 400 feet north of stream, road fork west at top of hill, road fork east, on top of stone at blacksmith	
shop; point marked "545"	544. 53
Gapland, 100 feet north of station, on rock near telephone pole; point marked "619.5"	532. 182 619. 11
Rohersville, 10 feet south of main entrance of post office, southeast corner of front face; aluminum tablet stamped "624"	623. 866
Rohersville, 1.8 miles north of, on northeast corner of southwest abutment of bridge over stream; point marked "480"	479. 71
Rohersville, 2.8 miles north of, 400 feet west of T road, 30 feet north of road, in stone; aluminum tablet stamped "Maryland 508 Adj"-Rohersville, 5 miles northeast of, at top of mountain, in front of house	507. 388
at second-class crossroads, 4 feet north of road, on top of stone;	1, 058. 45
Bolivar, at crossroads, at southwest corner of stone-arch bridge over stream, on top of rock; point marked "517"	516.96
45924°—Bull. 563—14——3	

Bolivar, 1.1 miles northeast of, at foot of hill, at southwest end of culvert over small stream, in front of brick house, on top of land-line stone; point marked "445.6"	Feet. 445. 16 546. 623 481. 492
From Harpers Ferry north to Antietam Creek.	
Harpers Ferry, 0.9 mile north of, 300 feet east of lock on canal, at second-class road fork northeast, 10 feet west of road, on top of large rock; point marked "276"	275. 66
Harpers Ferry, 3.3 miles north of, at foot of hill, on northwest abut-	219.00
ment of bridge over stream; point marked "422" Harpers Ferry, 4.2 miles north of, at crossroads near schoolhouse and	421. 28
church, in front face of schoolhouse, 4 feet east of main entrance; aluminum tablet stamped "Maryland 623 Adj"Harpers Ferry, 6.6 miles north of, on northwest corner of Chesapeake	622. 904
& Ohio Canal lock; point marked "300"Harpers Ferry, 7.9 miles north of, at Antietam Creek, in northwest end of west abutment of Chesapeake & Ohio Canal aqueduct; alum-	299.93
inum tablet stamped "Md. 301 Adj" From Sharpsburg northeast to Keedysville, thence southeast to point 2.7 miles north of Rohersville.	300. 270
Sharpsburg, in front face of post-office building, 20 feet north of main entrance; aluminum tablet stamped "Maryland 413 Adj"Sharpsburg, 1.4 miles northeast of, at foot of hill, 300 feet southwest of tollgate; nail in center of north side of iron bridge over Antie-	412. 857
tam Creek, marked "337" Keedysville, 50 feet north of railroad, in front face of hotel; aluminum	336. 73
tablet stamped "Maryland 404 Adj"	403. 467
Keedysville, 1 mile southeast of, at road fork north, at arch bridge over small stream; center of stone marked "402.5"	402.08
From Myersville south to Middletown.	
Myersville, 2.3 miles south of, north-south road at T road east, in northeast corner between county road and railroad, on top of large rock; chiseled square marked "G.S. □644 B.M."	643, 84
Mount Tabor, 330 feet southwest of, in northeast corner of Peter	584. 3
Leatherman's brick house; aluminum tablet stamped "588 Md"	587. 538
MARTINSBURG QUADRANGLE.1	
[Latitude 39° 15'-39° 30'; longitude 77° 45'-78°.]	
From Antietam west along highway to Shepherdstown, W. Va., thence northeast to Sharpsburg, thence north to Grimes.	
Shepherdstown, 1.3 miles northeast of, 150 feet west of second-class road crossing, 100 feet west of barn, on northwest abutment of culvert of Norfolk & Western Ry.; point marked "430"	429. 36

¹ For elevations in Martinsburg quadrangle in West Virginia see bulletin in preparation.

Grimes, 1.2 miles south of, 500 feet south of county-road crossing, west of railroad at cut, on large rock; chiseled square marked	VII. a.k
"G.S. B.M. 415"	Feet. 414. 88
Grimes, 2.2 miles south of, on east side of railroad, in north mouth of	
cut, on top of rock; chiseled square marked "G.S. B.M. 412"	411. 24
Mondel, in front of station; top of rail	418.6
Mondel, 2 miles south of, on east side at north end of cut, on top of	
rock; chiseled square marked "G.S. B.M. 458"	457.17
Sharpsburg, in front face of post-office building, 20 feet north of main	
entrance; aluminum tablet stamped "Adj 413"	412.857

Emmitsburg, Hagerstown, Taneytown, and Williamsport quadrangles. CARROLL, FREDERICK, AND WASHINGTON COUNTIES.

The following elevations were determined by primary leveling extended from Baltimore to Hagerstown, and from the Baltimore & Ohio R. R. precise-level line from Relay to Washington Junction. The leveling was done in 1908, as follows: In Taneytown quadrangle and most of Emmitsburg quadrangle, by C. H. Semper; in Hagerstown and Williamsport quadrangles and part of Emmitsburg quadrangle, by J. M. Harris. Additional leveling was done by Semper in Hagerstown and Williamsport quadrangles in 1910.

TANEYTOWN QUADRANGLE.1

[Latitude 39° 30'-39° 45'; longitude 77°-77° 15'.]

From Westminster west along Western Maryland Ry. to Detour.	
Westminster, in fifth step of main entrance to courthouse; bronze tablet stamped "774"	Feet.
Spring Mills, in front of station sign; top of rail	607. 0
Spring Mills, 250 feet west of station, at east end of north side of railroad culvert, on top of mud wall; chiseled square marked	000
" U.S.□B.M. 602 "	602. 11
Avondale, in front of station; top of rail	560. 3
Avondale, 210 feet west of station, on north side of track, on top of	•
railroad culvert; chiseled square marked "U.S. B.M. 559"	558. 57
Medford, in northwest corner of foundation of C. E. Engle's building	
at station; aluminum tablet stamped "531"	531. 201
Medford, in front of station; top of rail	529.8
Wakefield, in front of station; top of rail	515. 7
New Windsor, 1.4 miles east of, south of track, on top of railroad	
culvert; chiseled square marked "U.S. B.M. 501"	500.75
New Windsor, 0.3 mile east of, north side of east abutment of railroad	
bridge, in back wall; aluminum tablet stamped "453"	453. 225
New Windsor, in front of station; top of rail	445.5
Linwood, in front of station; top of rail	415. 6
Union Bridge, 0.8 mile east of, north side of east abutment of rail- road bridge, on top of retaining wall; chiseled square marked	
" U.S.□B.M. 405"	404. 36
Union Bridge, at railroad station, in front face at southeast corner of	
First National Bank; aluminum tablet stamped "402"	402.004
Union Bridge, in front of station; top of rail	399. 0

¹ For elevations in Taneytown quadrangle in Pennsylvania see Bull. 515.

Middleburg, 1.5 miles east of, on north side of railroad culvert, in top	Feet.
of bridge seat of east abutment; aluminum tablet stamped "398"	398. 180
Middleburg, in front of station; top of rail	461. 4
Bruceville, in front of station; top of rail	452. 9
Detour, in front of station; top of rail	348.9
From Ladiesburg northeast along Northern Central Ry. to Kingsdale.	
Ladiesburg, in front of station; top of rail	482. 3
Ladiesburg, 1.6 miles north of, south abutment of steel railway	102.0
bridge, east of track, in top of retaining wall; aluminum tablet stamped "403"	402. 880
Bruceville, 50 feet north of overhead crossing of Western Maryland	102.000
Ry., 6 feet east of track, on concrete foundation to brick gasoline	
house; chiseled square marked "U.S. B.M. 433"	433. 22
Bruceville, in front of station; top of rail	433. 9
Sharretts, in front of station sign; top of rail	418.7
Crabster, in front of station sign at crossing; top of rail	513. 2
Taneytown, Baltimore Street crossing railroad, east of track, south of	
road, on foundation of railroad-crossing sign; chiseled square	
marked "U.S. B.M. 501"	500. 51
Taneytown, in southwest corner of Central Hotel; aluminum tablet	
stamped "524"	523.276
Taneytown, in front of station; top of rail	500.4
Taneytown, 1.9 miles north of, at railroad crossing, 10 feet east of	
track, north of road, in foundation of crossing sign; aluminum	100 700
tablet stamped "494"	493. 583
Galt, at station, west of track, south of road, on foundation of cross-	`F04_07
ing sign; chiseled square marked "U.S. B.M. 535"	534. 27 513. 2
Piney Creek, in front of station; top of rail	015. 2
From Kingsdale southeast to Union Mills.	•
Kingsdale, 3.6 miles southeast of, on Baltimore Pike, in northwest	
corner of front face of F. T. Brown's brick house; aluminum tablet stamped "705"	704. 372
Union Mills, in foundation on northwest side of Shriver's grain mill,	104. 512
2 feet from corner; bronze tablet stamped "546"	544. 345
2 loct from corner, bronze tables stamped 525	011.010
EMMITSBURG QUADRANGLE,1	
[Latitude 39° 30'-39° 45'; longitude 77° 15'-77° 30'.]	•
From Walkersville northeast along Northern Central Ry. to Ladiesburg.	٠
McAleer, in front of station; top of rail	344. 1
Woodsboro, in front of station; top of rail	409.9
Woodsboro, at railway station, in northeast corner of foundation of	
flour mill; aluminum tablet stamped "411"	411. 102
Le Gore, in front of station; top of rail	434.0
New Midway, at station, at road crossing, 8 feet east of track, 6 feet	
north of highway, in foundation of railway crossing sign; aluminum	A01 4F0
tablet stamped "462"	461. 456
New Midway, in front of station; top of rail	463. 4

¹ For elevations in Emmitsburg quadrangle in Pennsylvania see Bull. 515.

From Detour west and northwest along Western Maryland Ry. to Thurmont and Buena Vista Spring.

Detour, 1,300 feet west of station, at road crossing, north of track, on outcrop; chiseled square marked "U.S. B.M. 341"	340.90
feet from southeast corner of stone foundation to E. D. Diller's house; aluminum tablet stamped "Prim. Trav. Sta. No. 1, 447" Detour, 1.5 miles west of, on south wall of west abutment of railroad	447. 116
bridge over river; chiseled square marked "U.S. B.M. 335" Detour, 2.7 miles west of, 20 feet north of track, east of overhead	334. 84
bridge, on large rock; chiseled square marked "U.S. B.M. 407"	
Rocky Ridge, in front of station; top of rail	
Rocky Ridge, opposite railroad station, in northwest corner of founda- tion of Robert Biggs's brick house; aluminum tablet stamped "397"_	
Loys, railroad crossing at station; top of rail————————————————————————————————————	
bridge over county road; aluminum tablet stamped "442"	
Graceham, in front of station; top of rail	
Thurmont, 2.1 miles northwest of, high bridge 97; on top of south	110.0
end of west abutment; chiseled square marked "U.S. B.M. 715"_	714. 32
Thurmont, 2.9 miles northwest of, steel bridge over Owens Creek, in	
top of mud wall at south side of west abutment; aluminum tablet	
stamped "779"	
Thurmont, 4 miles northwest of, at west end of switch, south of track,	ı
on large rock; chiseled square marked "U.S. B.M. 889	888. 96
Deerfield, in front of station; top of rail	959.6
Deerfield, 1.2 miles northwest of, railroad culvert, on top of mud wall	•
at south end of west wall; chiseled square marked "U.S. B.M.	
Sabillasville, in southeast corner of front face of St. Marks Lutheran	,
Church; aluminum tablet stamped "1108"	
Sabillasville, in front of station; top of rail	
Highfield, in front of station; top of rail	
Buena Vista Spring, in front of station; top of rail	
From Thurmont south to Charlesville.	,
•	
Thurmont, in front of station; top of rail	
Thurmont, in east face at northeast corner of Thurmont National	
Bank Building; aluminum tablet stamped "Prim. Trav. Sta. No.	
6, 523"	522. 880
Thurmont, 2 miles south of, at railroad crossing, 40 feet west of	
track, on north margin of road, on top of bowlder; chiseled square	
marked "U.S. 🗌 B.M. 454"	453.97
Catoctin, in front face of stone furnace building, north side of door;	
aluminum tablet stamped "497"	496. 553
Lewistown, in front face at north corner of stone house just south of	
church; aluminum tablet stamped "402"	402.034
Lewistown, in front of station; top of rail	378. 9
Lewistown, 1.1 miles south of, on top of mud wall at east end of south	
wall of concrete railroad culvert; chiseled square marked "U.S.	
□ B.M. 403"	402. 87

From Rocky Ridge north to Emmitsburg, thence west to Sabillasville.	
	Feet.
Motters, in front of station; top of rail	445. 0
Motters, in front of station, in southeast corner of foundation of hay scales; aluminum tablet stamped "445"	445. 052
Motters, 0.7 mile north of, cattle pass under railroad, on top of east	
side of south wall; chiseled square marked "U.S. B.M. 438"	437.31
Emmitsburg, in front of station; top of rail	416. 4
Emmitsburg, in front face of Dutch Reformed Church; aluminum tablet stamped "450"	
Emmitsburg, 1.4 miles west of, 50 feet east of crossroads at school-	449. 420
house, on north side of road, on top of large bowlder; chiseled	
square marked "U.S. B.M. 442"	441. 46
Emmitsburg, 2.3 miles west of, 280 feet west of brick house, south side of road, on large bowlder; chiseled square marked "U.S. B.M.	
643 "	642.66
Emmitsburg, 4.5 miles west of, 10 feet north of road, on top of large rock; chiseled square marked "U.S. B.M. 1176"	1, 175. 09
Emmitsburg, 5.3 miles west of, at William Miller's house, in northeast	
corner of stone foundation; aluminum tablet stamped "1150 Md"	1, 149. 383
Emmitsburg, 5.5 miles west of, in forks of road, on top of small	
bowlder; chiseled square marked "U.S. B.M. 1082"	1, 081. 77
Emmitsburg, 6 miles west of, north of road, on top of large bowlder;	
chiseled square marked "U.S. B.M. 1008"	1,007.44
Emmitsburg, 7.1 miles west of, north of road, 900 feet west of stream,	
halfway up hill, on top of large bowlder; chiseled circle marked "U.S. B.M. 1041"	
" 11.8.1 IB.M. 1041 "	1, 040, 47
	1, 040. 47
HAGERSTOWN QUADRANGLE.1	1, 040. 47
HAGERSTOWN QUADRANGLE. ¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.]	1, 040. 47
HAGERSTOWN QUADRANGLE.1	1,040.47
HAGERSTOWN QUADRANGLE. ¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland	
HAGERSTOWN QUADRANGLE. ¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads	1, 040. 47 590. 3
HAGERSTOWN QUADRANGLE. ¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of	590. 3
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S.□B.M. 612"	
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east	590. 3
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S.□B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S.□B.M. 637" ———————————————————————————————————	590. 3 611. 42
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S.□B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S.□B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6	590. 3 611. 42
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S.□B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S.□B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped	590. 3 611. 42
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S.□B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S.□B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6	590. 3 611. 42 637. 16
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads ———————————————————————————————————	590. 3 611. 42 637. 16
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads ———————————————————————————————————	590. 3 611. 42 637. 16 636. 142
HAGERSTOWN QUADRANGLE.¹ [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansvile, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark)	590. 3 611. 42 637. 16 636. 142 617. 671
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansville, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark) Maugansville, in front of station; top of rail From Buena Vista Spring west along Western Maryland Ry. to Hagerstown. Lake Royer, 0.3 mile west of Buena Vista Spring; surface of water	590. 3 611. 42 637. 16 636. 142 617. 671 614. 6
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansville, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark) Maugansville, in front of station; top of rail From Buena Vista Spring west along Western Maryland Ry. to Hagerstown. Lake Royer, 0.3 mile west of Buena Vista Spring; surface of water May 22, 1908	590. 3 611. 42 637. 16 636. 142 617. 671
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansville, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark) Maugansville, in front of station; top of rail From Buena Vista Spring west along Western Maryland Ry. to Hagerstown. Lake Royer, 0.3 mile west of Buena Vista Spring; surface of water May 22, 1908 Pen Mar, 175 feet east of, 10 feet south of track opposite store, on	590. 3 611. 42 637. 16 636. 142 617. 671 614. 6
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansville, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark) Maugansville, in front of station; top of rail From Buena Vista Spring west along Western Maryland Ry. to Hagerstown. Lake Royer, 0.3 mile west of Buena Vista Spring; surface of water May 22, 1908 Pen Mar, 175 feet east of, 10 feet south of track opposite store, on top of large bowlder; chiseled square marked "U.S. B.M. 1248"	590. 3 611. 42 637. 16 636. 142 617. 671 614. 6
HAGERSTOWN QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.] From Hagerstown north along Cumberland Valley R. R. to Maugansville. Hagerstown, crossing of Cumberland Valley and Western Maryland railroads Hagerstown, 1.1 miles north of, under overhead bridge, west side of track; on rock marked "U.S. B.M. 612" Hagerstown, 2.1 miles north of, 120 feet south of milepost 72, on east side of track; top of large stone marked "U.S. B.M. 637" Maugansville, 0.6 mile south of, 212 feet south of milepost 71, 10.6 feet west of track, on top of large rock; aluminum tablet stamped "636" Maugansville, 0.2 mile south of station, west side of track; copper bolt in concrete culvert (railroad bench mark) Maugansville, in front of station; top of rail From Buena Vista Spring west along Western Maryland Ry. to Hagerstown. Lake Royer, 0.3 mile west of Buena Vista Spring; surface of water May 22, 1908 Pen Mar, 175 feet east of, 10 feet south of track opposite store, on	590. 3 611. 42 637. 16 636. 142 617. 671 614. 6 1, 312. 8 1, 247. 18 1, 244. 1

¹ For elevations in Hagerstown quadrangle in Pennsylvania see Bull. 515.

Blue Mountain, in northwest corner of brick railroad station; aluminum tablet stamped "1189 Md"	Feet.
Blue Mountain, I mile west of, 40 feet south of track, on top of large	1, 100. 010
bowlder; chiseled square marked "U.S. B.M. 1106"	1, 106, 07
Blue Mountain, 2.1 miles west of, 6 feet south of track, on top of	_,
large bowlder; chiseled square marked "U.S. B.M. 1025	1, 024, 86
Edgement, in front of station; top of rail	965. 2
Edgemont, 225 feet west of station, 40 feet south of track, in north	
foundation wall of Bachtell's store and post office; aluminum tablet stamped "961 Md"	960. 128
Smithsburg, in front of station; top of rail	798. 0
Smithsburg, 150 feet west of station, in southeast corner of brick warehouse of Western Maryland Ry.; aluminum tablet stamped	#00 FE0
"800 Md"	799. 559
Cavetown, in front of station; top of rail	751. 0
Cavetown, 1 mile west of, 15 feet east of whistle post, 8 feet south of track, on top of large bowlder; chiseled square marked "U.S. B.M.	e07 00
697"	697.00
Cavetown, 1.7 miles west of, 8 feet south of track, 400 feet west of milepost 80, on rock in bank; chiseled square marked "U.S. B.M.	250 00
651"	650. 93
Chewsville, in front of station; top of rail	632. 6
Chewsville, in north face at northwest corner of brick railroad station; aluminum tablet stamped "636 Md"	635. 514
Chewsville, 1.1 miles west of, 300 feet east of overhead road bridge, 4 feet north of track, on top of large bowlder; chiseled square marked "G.S. B.M. 580"	579. 12
Security, in front of station; top of railSecurity, 0.4 mile west of, south of track, in top of east back wall of	510. 1
bridge over Marsh Run; aluminum tablet stamped "508 Md"	507. 747
Rissell, in front of station; top of rail	510. 5
Potomac Avenue, in front of station; top of rail	564. 2
North Junction, main line of Western Maryland Ry. and north-	E00 9
bound track of Altenwald cut-off, at frog point; top of rail North Junction, intersection of Cumberland Valley and Western	589. 3
Maryland railroads; top of rail	590. 2
Hagerstown, corner of Washington and Jonathan streets, on Jonathan	
Street side of courthouse; water table (C. & G. S. b. m. A)	552. 035
From Edgemont north along Western Maryland Ry. to Midvale.	
Shockeys, in front of sign; top of rail	778. 2
From Smithsburg south to Myersville, thence northwest to Hagerstown.	
Smithsburg, 2.5 miles south of, on top of Blue Mountain, in northwest	
corner of roads opposite a 2-story frame house, on top of large	
rock; chiseled square marked "G.S. B.M. 1512"	1, 511. 06
Smithsburg, 3.5 miles south of, 150 feet west of road, at southeast	
corner of frame schoolhouse, in east face of stone foundation;	4 004 050
aluminum tablet stamped "1335 Md"	1, 334. 073
Smithsburg, 4.6 miles south of, east of road, 50 feet north of 2-story	
stone house, on top of bowlder; chiseled square marked "G.S.	1. 116. 44

Smithsburg, 5.6 miles south of, west of road, 20 feet south of wooden bridge over stream, on top of flat rock; chiseled square marked "G.S. B.M. 1035"	Feet.
Wolfsville, in center of, in northwest corner of crossroads opposite J. M. Woolf's house, in face of large curbstone; aluminum tablet stamped "1044 Md"	1, 043. 488
Wolfsville, 1.2 miles southeast of, west of road, 150 feet south of road forks, on top of large bowlder; chiseled square marked "G.S. B.M. 931"	
Middlepoint, 0.6 mile south of, west of road, in V of private road, on top of large flat rock; chiseled square marked "G.S. B.M. 814"	813. 66
Middlepoint, 1.6 miles south of, under corner stone in southwest corner of south face of Grossnickles (Dunkard) Church; aluminum tablet stamped "740 Md"	
Middlepoint, 2.9 miles south of, under northeast corner of iron bridge over Catoctin Creek; chiseled square marked "G.S. B.M. 663" Ellerton, 1.4 miles south of, west of road, in east side of stone	662.31
foundation of Tilman Grossnickle's spring house; aluminum tablet stamped "582 Md"	581. 138
small wooden trestle over hollow; chiseled square marked "G.S. B.M. 970" Wolfsville Crossing, at railroad crossing; top of rail	969.60
Wolfsville Crossing, 0.2 mile north of, 80 feet west of railroad, on line with second-story windows in east side of John M. Fey's brick house; aluminum tablet stamped "1085 Md"	
Wolfsville Crossing, 2.5 miles north of, 5 feet east of trolley track, 390 feet south of railroad crossing, on top of large rock; chiseled square marked "G.S.□B.M. 835"	834, 65
Wolfsville Crossing, 3.1 miles north of, in north end of east face of Hagerstown & Myersville R. R. Co.'s brick power house; aluminum tablet stamped "640 Md"	
Smoketown, at railroad crossing; top of rail	
Wagners Crossroads, in front of station; top of rail	
West Beaver, railroad crossing at south end of station; top of rail—West Beaver Creek, iron bridge over Beaver Creek, north brace of bridge, west end of rivet on top; chiseled square marked "G.S.	
B.M. 480"	479. 69
tablet stamped "546 Md"Funkstown, at north end of, in north end of east brick wall of Red	
Man hall; aluminum tablet stamped "479 Md"	478. 837
From Hagerstown south to St. James.	
Hagerstown, 3.1 miles south of, 10 feet east of railroad, in northwest corner of large rock in bank; chiseled square marked "G.S. B.M. 548"	
Hagerstown, 3.7 miles south of, 450 feet east of railroad, in west end of south face of Marsh Church, 2 feet above ground; aluminum tablet stamped "534 Md"	
Hagerstown, 5.3 miles south of, 10 feet west of railroad, opposite school buildings, on large rock in bank; chiseled square marked "G.S. B.M. 487"	

From Hagerstown southwest 2 miles along Cumberland Valley R. R. (unchecked spur line).					
Hagerstown, Cumberland Valley R. R., in front of station; top of rail	of Feet.				
Hagerstown, 0.6 mile west of, at railroad bridge 74; top of rail (Western Maryland Ry. 554.6)	575. 3				
Hagerstown, 1 mile west of, 300 feet west of water tank, south of railroad, on top of rock in bank; chiseled square marked "G.S	590. 739				
WILLIAMSPORT QUADRANGLE.1					
[Latitude 39° 30'-39° 45'; longitude 77° 45'-78°.]					
From Maugansville along Cumberland Valley R. R. to Mason and Dixon.					
Maugansville, 1.3 miles north of, 25 feet south of milepost 69, east side of track; face of rock cut marked "U.S. B.M. 569"Mason and Dixon, opposite station, in top of stone monument marking Maryland-Pennsylvania boundary, aluminum tablet stamped "570"	568. 70 570. 166				
From Mason and Dixon along highway west and south to Chesapeake & Ohio Canal Lock 2.					
Mason and Dixon, 1.1 miles west of, 950 feet west of Gabriel's house, on north side of road; spike in root of 5-foot oak tree marked "U.S.B.M. 559"	559. 0 2 6				
Mason and Dixon, 2.2 miles northwest of, 20 feet west and 15 feet south of Dunkard Church; in root of large oak tree; spike	531. 88				
Mason and Dixon, 3.6 miles northwest of, in patch of woods, at corner of wire fence; spike in base of gatepost, marked "U.S.B.M. 489" Fairview, 0.6 mile southeast of, east end of bridge over .Conococheague Creek, north end of top of abutment; aluminum tablet	488. 44				
stamped "406"	405. 685				
Fairview, 0.8 mile west of, between two gates on north and south sides of road, on outcrop; square marked "U.S.B.M. 518"	517. 40				
Dryrun, in front face at northeast corner of brick schoolhouse; aluminum tablet stamped "609"	608. 156				
pole, marked "U.S.B.M. 554"	553. 69				
schoolhouse; spike in telephone pole, marked "U.S.B.M. 589" Dryrun, 3.4 miles south of, Montpelier farm, in front face at south-	588. 24				
west corner of brick farmhouse; aluminum tablet stamped "607"_	606. 927				
Clear Spring 1.2 miles north of, north bridge abutment over Little Conococheague Creek, west side; top of bolt in bridge-seat plate, marked "U.S.B.M. 544"	543. 40				
Clear Spring, in west face at southwest corner of Potomac Hotel; aluminum tablet stamped "566"	565. 970				
Clear Spring, 0.8 mile south of, at top of hill, at bend in road to west; spike in telephone pole, marked "U.S.B.M. 542"	541. 75				
Big Spring, 100 feet north of junction with road leading under rail-	10= 0=				

¹ For elevations in Williamsport quadrangle in West Virginia see bulletin in preparation.

road, on east side of road; large rock, marked "U.S.□B.M. 426"_

Feet. 371. 309 371. 358
4692
472. 715
430. 81 408. 2
403. 45 386. 8
390. 628
547. 440
538. 764 542. 7
942. I
524. 710
487. 159
446. 641
455.0
436.00
381. 744

Accident, Flintstone, Frostburg, Grantsville, Hancock, Oakland, and Pawpaw quadrangles.

ALLEGANY, GARRETT, AND WASHINGTON COUNTIES.

The elevations in the following list were determined by primary leveling extended from various bench marks of the Coast and Geodetic Survey transcontinental line.

The leveling in Frostburg and Flintstone quadrangles was done mostly in 1897 by Hargraves Wood; that in Grantsville, Oakland, Accident, and part of that in Pawpaw and Hancock quadrangles was done in 1898 by C. B. Bailey and Wood; and the remainder of the work in Pawpaw and Hancock quadrangles was done in 1899 by C. M. Smith.

HANCOCK QUADRANGLE.1

[Latitude 39° 30'-39° 45'; longitude 78°-78° 15'.]

From Hancock west along Baltimore pike to Green Ridge.

•					
Hancock, on coping stone at middle of north wall of Chesapeake & Ohio Canal aqueduct, about 600 feet east of bridge; Coast and Geodetic Survey bench mark stamped "1878 F"Hancock, in front of bank, on stone doorsill; bronze tablet stamped "448 C"	Feet. 420. 714 448. 023				
Hancock, 5.15 miles west of, 0.25 mile east of Harveys, 100 feet west of road to Woodmont, south of pike, in solid rock; bronze tablet stamped "946 C"	t west tablet				
From Lock 50 west to Clear Spring, thence north to Sylvan, Pa. (double targeted spur line).					
Lock 50, Chesapeake & Ohio Canal, close to watch house, on west end of north side; cut in top stone	404. 232 402. 235				
Cherry Run, W. Va., 1.5 miles north and 0.75 mile west of, in south side of southwest corner of wing wall of Chesapeake & Ohio Canal viaduct over Licking Creek, 4 feet from west end of wall, about 2 feet below coping, in second tier of masonry under coping; aluminum tablet stamped "Maryland 402 C"					
PAWPAW QUADRANGLE.					
[Latitude 39° 30'-39° 45'; longitude 78° 15'-78° 30',]					
From Pratt along highway to Little Orleans.					
Green Ridge, south of pike, west of road to Little Orleans, in small ledge of rock at top of ridge; bronze tablet stamped "1204 C"Little Orleans, Chesapeake & Ohio Canal aqueduct over Fifteenmile Creek, in north end of east coping; bronze tablet stamped "459 C"	1, 203. 897 459. 262				
Little Orleans, aqueduct over Fifteenmile Creek; square cut in coping stone (C. & G. S. b. m. XIII)	459, 685				
	409.000				
FLINTSTONE QUADRANGLE.	499. 000				
FLINTSTONE QUADRANGLE. [Latitude 39° 30'-39° 45'; longitude 78° 30'-78° 45'.]	498. 000				
	3 09. 000				
[Latitude 39° 30'-39° 45'; longitude 78° 30'-78° 45'.]	881. 501				

¹ For elevations in Hancock quadrangle in Pennsylvania see Bull, 515.

Flintstone, 2.75 miles east of top of Polish Mountain, opposite telegraph pole; stone stamped "1381"Pratt, 0.25 mile east of former post office, 150 feet west of Robinett's	Feet. 1, 381. 95
old house, south of road, in ledge of rock; aluminum tablet stamped "938 C"	938. 23
From Flintstone south along Oldtown road to Oldtown.	
Flintstone, sixth crossing of Town Creek from, 2 feet above grade of creek; copper bolt in ledge west of road to Oldtown, about 0.06 mile northeast of L. T. Shryock's; stamped "666 C"	666. 425
From Lock 67 west along Chesapeake & Ohio Canal to Cumberland.	
Lock 67 of Chesapeake & Ohio Canal, on coping stone; Coast and	×40.000
Geodetic Survey bench mark XVOldtown, 15 feet east of west end of Lock 70, in coping stone of south	540. 393
wall; copper bolt stamped "564 C"	564. 208
FROSTBURG QUADRANGLE,1	
[Latitude 39° 30'-39° 45'; longitude 78° 45'-79°.]	
From Cumberland north and west along Cumberland & Pennsylvania R. R. via Mount Savage to Frostburg.	•
Cumberland, coping of feed lock of canal; Coast and Geodetic Survey bench mark stamped "I.B.M.,U.S.C.&G.S., 1878"	623. 766
Cumberland, northeast corner of courthouse, in top of stonework; bronze tablet stamped "688 C"	687. 797
Mount Savage, 1,000 feet east of station, in southwest abutment of	1 100 040
high bridge over Sulphur Creek; copper bolt stamped "1198 C" Frostburg, 50 feet east of tunnel on Cumberland & Pennsylvania	
R. R., in south side of rock cut; bronze tablet stamped "1929 C"	1, 928.718
From Frostburg south and east along Cumberland & Pennsylvania R. R. to Cumberland.	
Vale Summit, 250 feet west of station and 100 feet south of Georges Creek & Cumberland R. R., in large bowlder; copper bolt stamped "1993 C"	*
Clarysville; platform at station	•
Park station (Casino); Georges Creek & Cumberland R. R. platform-	756.8
GRANTSVILLE QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 79°-79° 15'.]	
From Frostburg via Piney Grove, New Germany, and Crabtree to Bloomington.	
Piney Grove, 0.5 mile east of, near east corner of large house north of pike, 200 feet west of Twomile Run; bronze tablet stamped "2424 C"	2, 424, 125
New Germany, 0.1 mile east of, 100 feet east of Poplar Lick Run, 20	_,
feet south of road to Oakland at intersection of road to old mill, in ledge of rock; bronze tablet stamped "2472 C"	9 471 709
Floyd, 0.12 mile east of railroad station (known as Frankville), 0.09 mile west of milepost "214 to Baltimore," south of Baltimore & Ohio R. R., at east end of frame house, in large rock; bronze	2, 411. 100
tablet stamped "1693"	1, 693. 121

¹ For elevations in Frostburg quadrangle in Pennsylvania see Bull. 515.

Floyd, 2.6 miles east of, 100 feet east of signal at station, south of Baltimore & Ohio R. R. bench mark in Laffey Rock; bronze tablet stamped "1380 C"	Feet. 1, 380. 441		
From Piney Grove west through Grantsville to Keyser.	٠		
Grantsville, Farmers' Hotel, in southeast corner stone, opposite milepost marked "14 mi. to Frostburg" and "106 mi. to Wheeling"; aluminum tablet stamped "2299 C"			
ACCIDENT QUADRANGLE.			
[Latitude 39° 30'-39° 45'; longitude 79° 15'-79° 30'.]			
From New Germany southwest via Meadow Mountain Road to Thayerville.			
Thayerville, 5.8 miles east of, north of Meadow Mountain road, near Meadow Mountain Run, in rock 500 feet northeast of old sawmill site; bronze tablet stamped "2573"	2, 573. 506		
From Thayerville north through McHenry, Hoyes, and Accident to Keyser.			
Hoyes, southeast corner of foundation wall of Catholic Church; aluminum tablet stamped "2611 C"Accident, in northeast corner of foundation of English Lutheran Church; aluminum tablet stamped "2394 C"			
From McHenry through Sang Run, Friendsville, and Shelbysport to Somerfield, Pa., thence southeast to Keyser.	•		
Friendsville, southeast corner of First Avenue and Maple Street, in east foundation wall of building owned by L. E. Friend; aluminum tablet stamped "1501 C"	1, 988. 409		
OAKLAND QUADRANGLE.			
[Latitude 39° 15'-39° 30'; longitude 79° 15'-79° 30'.]			
From Oakland northeast to Thayerville.			
Oakland, 1.25 miles west of, top of southwest abutment of Baltimore & Ohio R. R. bridge over Youghiogheny River; Coast and Geodetic Survey bench mark K	2, 460. 369		
From Oakland south to Redhouse, thence east to Gorman, thence north through Kearney and Deer Park to Mountain Lake.	·		
Redhouse, southwest corner stone of school building; aluminum tablet stamped "2557 C"			
Gorman, highway bridge over Potomac River, at west end of north abutment; aluminum tablet stamped "2312 C"			

Kearney, 2.2 miles northeast of, 900 feet west of Taskers Corners,	
600 feet east-southeast from barn in Jerry Tasker's upper field;	Feet.
aluminum tablet stamped "2720 C"	2,720.351
Deer Park, between two Baltimore & Ohio R. R. stations; 725 feet	
east of Deer Park Hotel station, top of southwest wing wall of	
abutment of stone culvert; aluminum tablet stamped "2447 C"	2, 447. 184
Mountain Lake, 3 miles east of Oakland railroad bridge over Little	
Youghiogheny River, on top of southwest corner of west abutment;	
point marked "B M" (C. & G. S. b. m. XXII)	2, 404. 324

At Thayerville.

	Thayerville, 700 feet from, south of Meadow Mountain road, 150 feet							
	tablet	bronze	bowlder;	in	road,	Thayerville-Oakland	\mathbf{of}	east
, 493 . 463						"2493 C"	bec	stam

APPENDIX A.

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

Annapolis, Antietam, Baltimore, Betterton, Elk Garden, Elkton, Ellicott, Flintstone, Frostburg, Gunpowder, Hagerstown, Hancock, Havre de Grace, Ijamsville, Keyser, Laurel, Mount Airy, Oakland, Parkton, Pawpaw, Relay, Rockville, Seneca, Washington, and Williamsport quadrangles.

ALLEGANY, ANNE ARUNDEL, BALTIMORE, CARROLL, CECIL, FREDERICK, GARRETT, HARFORD, HOWARD, MONTGOMERY, PRINCE GEORGES, AND WASHINGTON COUNTIES.

The following descriptions and elevations are taken from reports of the Coast and Geodetic Survey and from lists furnished by the Baltimore & Ohio and Pennsylvania railroads; the data taken from the Coast and Geodetic Survey reports are republished by permisson of the superintendent of that bureau. The bench marks were established by the Coast and Geodetic Survey, by the Baltimore & Ohio R. R., and by the Pennsylvania R. R., from precise leveling, and their elevations are in agreement with the 1912 adjustment of the Coast and Geodetic Survey.

ANNAPOLIS QUADRANGLE.

[Latitude 38° 45'-39°; longitude 76° 15'-76° 30'.]

At Annapolis.

1 S. R.)		eet. . 409
Annapolis, 8 feet southwest of front of observatory building; on center of top of stone pier (C. & S. b. m. Obs.)		. 293
Annapolis, on northeast side of base of Herndon Monument, midway of length, about 2 inches out from face of shaft, about 3 feet above ground (C. & S. b. m. Hern.)29.196 Annapolis, on southwest corner of fourth granite block supporting iron fence around the governor's house, counting northeast from southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.378	•	
of length, about 2 inches out from face of shaft, about 3 feet above ground (C. & S. b. m. Hern.)29.196 Annapolis, on southwest corner of fourth granite block supporting iron fence around the governor's house, counting northeast from southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.378	ter of top of stone pier (C. & S. b. m. Obs.)23.	012
ground (C. & S. b. m. Hern.) 29. 196 Annapolis, on southwest corner of fourth granite block supporting iron fence around the governor's house, counting northeast from southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41. 378	Annapolis, on northeast side of base of Herndon Monument, midway	
Annapolis, on southwest corner of fourth granite block supporting iron fence around the governor's house, counting northeast from southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.378	of length, about 2 inches out from face of shaft, about 3 feet above	
iron fence around the governor's house, counting northeast from southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.378	ground (C. & S. b. m. Hern.)29.	. 196
southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.378	Annapolis, on southwest corner of fourth granite block supporting	
	iron fence around the governor's house, counting northeast from	
Annual III america III and Charles Charles and Annual Annual A	southwest corner; cross cut in stone (C. & G. S. b. m. No. XIII) 41.	. 378
Annapolis, opposite wasnington Street market, west doorsill of	Annapolis, opposite Washington Street market, west doorsill of	
church on West Street; cut in east corner (C. & G. S. b. m. No.	church on West Street; cut in east corner (C. & G. S. b. m. No.	
XII) 42. 854	XII) 42.	. 854

ANTIETAM QUADRANGLE.

[Latitude 39° 15'-39° 30'; longitude 77° 30'-77° 45'.]

Near Keedysville.

Keedysville, 0.5 mile south of, on south abutment of Baltimore & Ohio R. R. bridge 26, on northwest corner of west capstone; cross cut (C. & G. S. b. m. B)	Feet. 391. 564
From point near Washington Junction along Baltimore & Ohio R. R. to Harpers Ferry.	
Washington Junction, 0.9 mile east of, south side of tracks near mile-post marked "Washington, 42 miles"; top of vertical rail section (B. & O. R. R. b. m. 43)	234. 107
Point of Rocks, south side of tracks, in foundation arch at east end of Point of Rocks tunnel; copper bolt (B. & O. R. R. b. m. 44A)Catoctin, 1 mile southeast of, opposite milepost marked "Baltimore,	233. 156
70 miles"; top of vertical rail section between tracks (B. & O. R. R. b. m. 45)	238. 257
Catoctin, opposite milepost 71; top of vertical rail section between tracks (B. & O. R. R. b. m. 46)	239.068
rail section between tracks (B. & O. R. R. b. m. 47) Catoctin, 2 miles west of, 2 miles east of Brunswick, opposite milepost 73; top of vertical rail section between tracks (B. & O. R. R.	242.644
b. m. 48) Brunswick, 1.5 miles from, opposite milepost 74, at east end of Brunswick yards; top of vertical rail section between tracks (B. & O.	245. 721
R. R. b. m. 49)	247. 545
b. m. 50) Brunswick, 0.5 mile west of, in southwest corner of culvert 39 G; copper bolt (B. & O. R. R. b. m. 51)	247. 713 250. 426
Knoxville, 1 mile east of, opposite milepost 77; top of vertical rail section between tracks (B. & O. R. R. b. m. 52)Knoxville, north side of tracks near milepost 78; top of vertical rail	259. 530
section (B. & O. R. R. b. m. 53) Weverton, 2 miles west of, west end of north end wall of culvert 39 I;	258. 044
copper bolt (B. & O. R. R. b. m. 54) Weverton, 1.3 miles west of, 100 feet east of milepost 80, on north side of tracks, in native rock; copper bolt (B. & O. R. R. b. m. 55)	258. 087 263, 323
Weverton, 2.5 miles west of, near Harpers Ferry, 400 feet east of Harpers Ferry tunnel, in box culvert 300 feet west of milepost 81; copper bolt (B. & O. R. R. b. m. 56)	280. 268
From point near Doubs along Baltimore & Ohio R. R. to Washington Junction.	
Doubs, near, 300 feet west of milepost 66, in west capstone of south coping of arch culvert; copper bolt (B. & O. R. R. b. m. 160) Washington Junction, near, opposite milepost 67, between tracks; top	290. 387
of vertical rail section (B. & O. R. R. b. m. 161) Washington Junction, 0.8 mile east of, opposite milepost 68, between	286. 676
tracks; top of vertical rail section (B. & O. R. B. b. m. 162)	257. 545

5. Feet. _ 284. 950 e	Adamstown, near, at east end of first cut from Adamstown, on stone (granite) west of culvert; bottom of square hole (C. & G. S. of culvert; copper bolt (B. & O. R. R. b. m. 163)
	arch culvert, in south end of west coping of small culvert; copper
h f	bolt (B. & O. R. R. b. m. 164) Washington Junction, 1.5 miles from, on Adamstown cut-off, at north end of first large cut from Metropolitan branch, in north end of
đ	west coping of culvert; copper bolt (B. & O. R. R. b. m. 165) Washington Junction, on south side of tracks, 150 feet east of old signal tower; top of vertical rail section (B. & O. R. R. b. m. 44)
	BALTIMORE QUADRANGLE.
	[Latitude 39° 15'-39° 30'; longitude 76° 30'-76° 45'.]
· ·	In the vicinity of Baltimore.
) .	West Baltimore, between tracks; top of vertical rail section (B. & O.
	R. R. b. m. 36)
١,	Baltimore, corner of West Ostend and Sharp streets, on Locust Point line of Baltimore & Ohio R. R., 500 feet east of railroad junction, in middle of south coping on eastern one of two small culverts;
	copper bolt (B. & O. R. R. b. m. 39)
	Baltimore, corner of Howard Street and Fifth Avenue, in step at en-
s ·	trance to Fifth Regiment armory; copper bolt (city b. m. 1288) Baltimore, at Mount Royal station, between third and fourth bents of train shed from Mount Royal entrance to tunnel, in coping of
	retaining wall; copper bolt (B. & O. R. R. b. m. 41)
&	Mount Royal station, Baltimore, 0.5 mile north of, in end of north abutment of bridge over Pennsylvania tracks; copper bolt (B. & O. B. B. J. W. 40)
	O. R. R. b. m. 42) Baltimore, about 400 feet west of milepost 3, in south end of west
	abutment of small bridge; copper bolt (B. & O. R. B. b. m. 43)
	Raltimore, Belt Line R. R. bridge over Jenkins Lane, in south bridge
s	seat of east abutment; copper bolt (city b. m. 1240) Baltimore, on north side of Fort McHenry, east of quartermaster's wharf, at first angle in sea wall; cross cut on top of wall ("Tidal
4. 442	1")
s , :	Baltimore, on north side of Fort McHenry, on top of sea wall, in center of fourth capstone west from quartermaster's wharf; cross
	cut within a circle ("Tidal 2") Baltimore, at southeast corner of storehouse, south of quartermaster's
	wharf, highest point of knob of an old cannon set in ground with
9.098	muzzle downward ("Tidal 3")
e	Baltimore, at Fort McHenry, at intersection of roads leading to fort entrance and quartermaster's wharf, on corner diagonally opposite the colonel's office; highest point of knob of an old cannon set in
	ground with muzzle downward ("Tidal 4")
	Baltimore, at corner of Fort Avenue and Towson Street, at Fort
	Avenue entrance to Church of Our Lady of Good Counsel, in west
	end of top step; bottom of square hole (city 1181) Baltimore, on corner of Randall and Covington streets, northeast en-
h &	trance to Riverside Park, in top of large granite gatepost on south side of path, close to corner of post; bottom of square hole (C. &
_ 69. 921	G. S. b. m. L)

45924°-Bull. 563-14-

Baltimore, at corner of Sharp and Ostend streets, on north end of west one of two small railroad culverts; in top of first coping Adamstown cut-off, not far from Doubs, in east end of north coping	Feet.
b. m. M)Baltimore, 300 feet from south end of Belt Line cut, at approach to Camden station, in extreme south end of eastern offset to west retaining wall for elevated tracks; copper bolt (B. & O. R. B. b. m.	8. 993
Mount Winans, 0.3 mile northeast of, on west abutment of bridge 3A, set vertically in south capstone; copper bolt (B. & O. R. R.	25. 141
b. m. 38) Mount Winans, near northeast end of station platform, between tracks; top of vertical rail section (B. & O. R. R. b. m. 37)	21. 631 36. 765
From N-I tower along Pennsylvania R. R. to Arbutus.	00.100
N-I tower, 60 feet south of, in northeast coping of box culvert; cop-	•
per bolt (P. R. R. b. m. 84) Milepost 91, 2,700 feet south of, in southwest coping of arch; copper	34. 72
bolt (P. R. R. b. m. 85) Milepost 92, 420 feet south of, Baltimore & Ohio R. R. crossing over-	44. 40
head bridge; on shelf (P. R. R. b. m. 86) Philadelphia Turnpike (Baltimore), in northeast coping of iron pipe;	58. 37
copper bolt (P. R. R. b. m. 86a)	60. 40 85. 32
Broadway Bridge (Baltimore), north end pedestal; no mark (P. R. R. b. m. 88a)	77. 52
Union railroad tunnel (Baltimore), north end, west side; on shelf (P. R. R. b. m. 89)	92. 87
(P. R. b. m. 90)St. Paul Street Bridge (Baltimore), south end, east pier; copper	53. 46
bolt (P. R. R. b. m. 91)Baltimore station, 1,924 feet south of, north end, east side Baltimore	60. 22
& Potomac R. R. tunnel; on shelf (P. R. R. b. m. 92) Pennsylvania Avenue station (Baltimore), in south step; copper bolt	66. 20
(P. R. B. b. m. 93)Lafayette, 2,273 feet north of, southwest wing of Baltimore & Potomac R. R. tunnel (Baltimore); on shelf (P. R. R. b. m. 94)	133. 15 162. 31
Lafayette, 1,856 feet south of, southwest back wall, Franklin Street undergrade (Baltimore); square (P. R. R. b. m. 95 A)	143. 45
Calverton, 1,961 feet south of, northwest back wall Gwynn's Falls Bridge; copper bolt (P. R. R. b. m. 96)	140. 50
Frederick Road, east side retaining wall; shelf (P. R. R. b. m. 97) Louden Park, west side of track, on cemetery wall; square (P. R. R.	157.32
b. m. 98)	146. 50 154. 26
From Baltimore station north along Pennsylvania R. R. to milepost 17.	
Milepost 2, 930 feet north of, in southeast bridge seat; copper bolt	
(P. R. R. b. m. 1)	116. 58
Woodberry, west center of arch; copper bolt (P. R. R. b. m. 2) Woodberry, east center of arch; copper bolt (P. R. R. b. m. 3)	138. 80 155. 93

Milepost 4, 360 feet south of, south side of track, on city-line stone; square (P. R. B. b. m. 4)	Feet.
Melvale, 840 feet north of, northeast back wall; copper bolt (P.	174. 73
R. R. b. m. 5)	182, 01
Cylburn, 500 feet north of, northwest abutment; shelf (P. R. R.	102. 01
b. m. 6)	100 59
Mount Washington, 60 feet south of, northwest seat of bridge No. 5;	199. 53
copper bolt (P. R. R. b. m. 7)	100.00
	198. 69
Milepost 7, 870 feet north of, southwest seat of bridge No. 6; copper	000 00
bolt (P. R. R. b. m. 8)	230. 69
Baltimore water supply; surface of water in lake (P. R. R. determi-	000.0
nation)	226. 0
Lake, 600 feet south of station, west side of track, in coping of arch;	
copper bolt (P. R. R. b. m. 9)	229.70
Lake, opposite station, east side of track, in rock; copper bolt (P. R. R. b. m. 9a)	250. 73
Ruxton, 240 feet south of, northwest abutment of overhead road	
bridge; shelf (P. R. R. b. m. 10)	269.70
Sherwood, 300 feet south of, east center of arch; copper bolt (P.	
R. R. b. m. 11)	284. 15
Milepost 9, 2,000 feet north of, northwest wing of bridge No. 7;	
copper bolt (P. R. R. b. m. 12)	291. 20
Lutherville, station step; copper bolt (P. R. R. b. m. 13)	328. 73
Milepost 11, 810 feet north of, west center of coping on box culvert;	020.10
copper bolt (P. R. R. b. m. 14)	357. 09
	551.08
Milepost 12, 2,000 feet north of, northeast wing of bridge No. 11;	905 40
copper bolt (P. R. R. b. m. 15)	365. 40
Texas, station step; copper bolt (P. R. R. b. m. 16)	329.54
Cockeysville, 120 feet south of tower V, northeast coping of box	050 00
culvert; copper bolt (P. R. R. b. m. 17)	278. 68
Milepost 16, 240 feet south of, west center of arch; copper bolt	004 54
(P. R. R. b. m. 18)	261. 51
From Baltimore along Baltimore & Ohio R. R. to milepost marked "Baltimore 11 miles."	
Dellimone at telegraph role 00 0 in north and of huidge goot of	
Baltimore, at telegraph pole 92-8, in north end of bridge seat of east abutment of large iron bridge; copper bolt (B. & O. R. R.	
b. m. 44)	133. 396
Baltimore, Gay Street station, south side of tracks, on bridge seat	
of west abutment of bridge; copper bolt (B. & O. R. R. b. m. 45)	150. 445
Baltimore, opposite telegraph pole 90-11, on bridge seat of west	
abutment of Duncans Lane Bridge, between tracks; copper bolt	
(B. & O. R. R. b. m. 46)	108. 518
Baltimore, Bay View station, 100 feet west of telegraph pole 89-20,	
on north end of bridge seat of east abutment of bridge over Philadel-	
phia road; copper bolt (B. & O. R. R. b. m. 47)	72.669
Herring Run, at telegraph pole 88-13, in east abutment of bridge	
3b; copper bolt (B. & O. R. R. b. m. 48)	30. 280
3b; copper bolt (B. & O. R. R. b. m. 48) Rosedale, opposite milepost B 9; vertical rail section between tracks	30. 280
3b; copper bolt (B. & O. R. R. b. m. 48) Rosedale, opposite milepost B 9; vertical rail section between tracks (B. & O. R. R. b. m. 49)	30. 280 45. 662
3b; copper bolt (B. & O. R. R. b. m. 48) Rosedale, opposite milepost B 9; vertical rail section between tracks	

R. R. b. m. 32)

BETTERTON QUADRANGLE.

[Latitude 39° 15'-39° 30'; longitude 76°-76° 15'.]

From Belcamp along Baltimore & Ohio R. R. to point nea	near Stepney.
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From Belcamp along Baltimore & Ohio R. R. to point near Stepney.	•
Belcamp, 0.5 mile east of Sewell, in southeast capstone of bridge 22 A; copper bolt (B. & O. R. R. b. m. 67)Belcamp, 0.2 mile east of, opposite milepost 28, between tracks; top	Feet. 22. 998
of vertical rail section (B. & O. R. R. b. m. 68) Stepney, near, at telegraph pole 67-27, in southeast capstone of	36. 444
bridge 23 A; copper bolt (B. & O. R. R. b. m. 68 A) Stepney, near, at telegraph pole 66-22, in north end of west abutment	34. 434
of bridge 25 A; copper bolt (B. & O. R. R. b. m. 69) Stepney, 0.8 mile west of, opposite milepost 30, between tracks; top	18. 365
of vertical rail section (B. & O. R. R. b. m. 70)	43. 968
From milepost 65 along Pennsylvania R. R. to Bush River.	`
Milepost 65, in east end of box culvert; copper bolt (P. R. R. b. m. 62)	67. 60
Milepost 66, 810 feet south of, in northeast abutment of open bridge; copper bolt (P. R. R. b. m. 63)	64. 10
Milepost 68, 660 feet north of, in northeast coping of box culvert; copper bolt (P. R. R. b. m. 64)	43. 75
Perrymansville, in step of station; copper bolt (P. R. R. b. m. 65) Milepost 70, 460 feet north of, in southeast coping of box culvert;	44. 12
copper bolt (P. R. R. b. m. 66) Milepost 70, 4,200 feet south of, in northeast coping of box culvert;	35. 01
copper bolt (P. R. R. b. m. 67)	16.89
Bush River, wooden sill of tower (P. R. R. b. m. 68) Bush River, south end of bridge over, in northwest coping of box culvert; copper bolt (P. R. R. b. m. 69)	11. 93 7. 62
ELK GARDEN QUADRANGLE.	
[Latitude 39° 15'-39° 30'; longitude 79°-79° 15'.]	
Near Swanton.	
Swanton, near, on abutment of small Baltimore & Ohio R. R. bridge; cut, marked "B M" (C. & G. S. b. m. XXV)	
From point near Bloomington along Baltimore & Ohio R. R. to point near Altamont.	
Bloomington, 0.2 mile east of, on bridge 79 over Potomac River, second step from top, in north bridge abutment; copper bolt (B. & O. R. R. b. m. 29)	
Bloomington, near, opposite milepost 209, between tracks; top of vertical rail section (B. & O. R. R. b. m. 30)	·
Black Bear, near, opposite milepost 210, between tracks; top of vertical rail section (B. & O. R. R. b. m. 31)	•
Black Bear, near, southwest side of southeast portal of Everetts tunnel; square cut in foundation (B. & O. R. R. b. m. 31 A)	
Black Bear, near, at telegraph pole 210-30, in foundation at northeast side of northwest portal of Everetts tunnel, copper bolt (B. & O.	

Bond station, 1.2 miles east of, 2.6 miles east of Frankville, 100 feet	
east of signal station, south side of Baltimore & Ohio R. R.; bronze	Feet.
tablet set in rock (U.S.G.S. b. m.)	1, 380. 440
Bond station, 0.5 mile east of, opposite milepost 212, between tracks;	
top of vertical rail section (B. & O. R. R. b. m. 33)	1, 445. 351
Crabtree, opposite milepost 213, between tracks; top of vertical rail section (B. & O. R. R. b. m. 34)	1 564 118
Frankville, near, 45 feet east of telegraph pole 213-39, south side of	1, 001. 110
track, in rock; copper bolt (B. & O. R. R. b. m. 35)	1, 670. 354
Frankville, near, 30 feet northeast of telegraph pole 215-03, on	
south side of track, in rock; copper bolt (B. & O. R. R. b. m. 36)	1, 804. 097
Frankville, 1.5 miles southwest of, northwest of tracks, near milepost 216, 500 feet northeast of Hitchcock tunnel, in southwest end of	
retaining wall; copper bolt (B. & O. R. R. b. m. 37)	1, 910, 921
Frankville, 2.5 miles southwest of, opposite milepost 217, between	_, v
tracks; top of vertical rail section (B. & O. R. R. b. m. 38)	2,027.378
Swanton, 1 mile northeast of, at telegraph pole 218–13½, in abutment	
of bridge 80, north side of track; copper bolt (B. & O. R. R.	0 105 155
b. m. 39)Swanton, 0.2 mile northeast of, at telegraph pole 219-5½, in northwest	2, 185. 475
end of bridge seat of northeast abutment of bridge 83; copper bolt	
(B. & O. R. R. b. m. 40)	2, 271. 557
Swanton, 0.2 mile southwest of, at telegraph pole 219-21, on bridge 84,	•
in bridge seat of abutment toward Wheeling; copper bolt (B. & O.	
R. R. b. m. 40 A)	2, 297. 299
Swanton, 1.2 miles southwest of, at telegraph pole 220-19, in bridge seat of abutment toward Wheeling; copper bolt (B. & O. R. R.	*
b. m. 41)	2, 381, 425
Swanton, 1.8 miles southwest of, opposite milepost 221, between	
tracks; top of vertical rail section (B. & O. R. R. b. m. 42)	2, 435. 851
ELKTON QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 75° 45'-76°.]	
From Delaware-Maryland boundary line along Pennsylvania R. R. to mile-	
post 56.	
Delaware-Maryland boundary stone; top of new stone marked "tan-	•
gent 1849" (P. R. R. b. m. 36 A)	117. 99
Iron Hill, 200 feet south of station, in northeast coping of box cul-	101 01
vert; copper bolt (P. R. R. b. m. 37) Milepost 43, 2,400 feet north of, in center of east coping of culvert;	121. 31
copper bolt (P. R. R. b. m. 38)	88. 20
Milepost 43, 3,000 feet south of, in southeast coping of twin arch;	
copper bolt (P. R. R. b. m. 39)	57.34
Big Elk Creek, at southwest corner of bridge 54, in back wall; cop-	00.00
per bolt (P. R. R. b. m. 40) Elkton, in doorsill of station; copper bolt (P. R. R. b. m. 41)	33. 60 30. 00
Milepost 46, 500 feet south of, in southwest back wall of bridge 55;	30.00
copper bolt (P. R. R. b. m. 42)	19.50
Milepost 47, 1,200 feet north of, northwest coping of culvert; copper	
bolt (P. R. R. b. m. 43)	23 . 59
Milepost 48, 1,560 feet north of, in northeast wing of arch bridge; copper bolt (P. R. R. b. m. 44)	56. 47
copper por (1. 10 10 0 m 31)	00. 11

Milepost 48, 900 feet south of, in northeast wing of 20-foot arch; cop-	Feet.
per bolt (P. R. R. b. m. 44a)	71.06
Bacon Hill, in northeast corner of coping of box culvert; copper bolt	
(P. R. R. b. m. 45)	76. 15
Milepost 50, 1,020 feet south of, in southeast coping of arch; copper	F1 F0
bolt (P. R. R. b. m. 46)	71.78
Northeast, 1,800 feet north of; copper bolt (P. R. R. b. m. 47)	48. 80
Milepost 52, 180 feet north of, in southeast coping of arch; copper	00 50
bolt (P. R. R. b. m. 48) Milepost 52, 1,300 feet south of, in east pier of overhead bridge; cop-	2 8. 58
· · · - · · · · · · · · · · · · · ·	31. 61
per bolt (P. R. R. b. m. 48a)Milepost 53, 1,800 feet north of, 12-foot arch in northeast end of cop-	91.01
ing; copper bolt (P. R. R. b. m. 48b)	21. 57
Milepost 53, 150 feet north of, northeast end of coping, Broad Creek	21.01
arch; copper bolt (P. R. R. b. m. 49)	24.94
Milepost 53, 1,350 feet south of, box culvert in northeast end of cop-	21.01
ing; copper bolt (P. R. R. b. m. 48a)	27.96
Charlestown, 390 feet south of, northwest coping of box culvert; cop-	
per bolt (P. R. R. b. m. 50)	41. 2 0
Milepost 55, 150 feet north of, northwest coping of box culvert; cop-	
per bolt (P. R. R. b. m. 51)	57.11
	•
From Foys Hill along Baltimore & Ohio R. R. to point near Newark, Del.	
Milepost 45, opposite, between tracks; vertical rail section (B. & O.	
R. R. b. m. 85)	209.473
Milepost 46, 10 feet east of, in outcropping rock; copper bolt (B. &	
O. R. R. b. m. 86)	182. 858
Leslie, 0.5 mile west of, in north end of west abutment to bridge 42 A;	
copper bolt (B. & O. R. R. b. m. 87)	164. 278
Milepost 48, opposite, between tracks; vertical rail section (B. & O.	400 ==0
R. R. b. m. 88)	138. 779
Eder, 1 mile east of Leslie, bridge 44 C over creek, in north end of	110 500
bridge seat of west abutment; copper bolt (B. & O. R. R. b. m. 89)_ Eder, 0.2 mile east of, mud wall of bridge 45 B, in north coping stone	118. 520
of west abutment; copper bolt (B. & O. R. R. b. m. 90)	197 050
Eder, 0.8 mile east of, open culvert, in north capstone of west abut-	137. 852
ment; copper bolt (B. & O. R. R. b. m. 90 A)	138. 536
Childs, 0.5 mile west of, in north end of west abutment of bridge	100.000
47 B; copper bolt (B. & O. R. R. b. m. 91)	136. 394
Childs, 0.2 mile east of, at Singerly, in north capstone of west abut-	200,002
ment of bridge 47 F; copper bolt (B. & O. R. R. b. m. 92)	136. 447
Baldwin, at Singerly Tower, in north capstone of west abutment of	
bridge 49 A; copper bolt (B. & O. R. R. b. m. 93)	163. 735
Baldwin, 0.2 mile east of, at Barkesdale, bridge 50 A over Elk Creek,	•
in north capstone of west abutment of; copper bolt (B. & O. R. R.	
b. m. 94)	142. 576
Barkesdale, 0.4 mile east of, in north capstone of west abutment of	
bridge 51 C; copper bolt (B. & O. R. R. b. m. 95)	163. 195
Maryland-Delaware State line, 0.1 mile west of, in north capstone of	
west abutment of bridge 52 A; copper bolt (B. & O. R. R. b. m. 96)	135. 984

ELLICOTT QUADRANGLE.

[Latitude 39° 15′-39° 30′; longitude 76° 45′-77°.]

From Ilchester along Baltimore & Ohio R. R. to point near Hoods Mill.

Ilchester, in mud wall of west abutment of bridge out of Ilchester	Feet.
tunnel, between tracks; copper bolt (B. & O. R. R. b. m. 104)	109. 173
Gray, opposite milepost 14 on old line, between tracks; top of vertical	
rail section (B. & O. R. R. b. m. 105)	121. 486
Ellicott City 600 feet west of, south side of tracks, in native rock;	
copper bolt (B. & O. R. R. b. m. 106)	144. 376
Oella, 400 feet east of, in center of north coping of arch culvert; cop-	
per bolt (B. & O. R. R. b. m. 106 A)	148.034
Oella, 0.8 mile west of, on west side of tracks, 40 feet south of tele-	
graph pole 16-10, in native rock; copper bolt (B. & O. R. R. b. m.	
107)	168. 438
Hollofield, 1.5 miles south of, in southeast corner of west wing wall	
of Union dam; copper bolt (B. & O. R. R. b. m. 108)	187.532
Hollofield, near, in east coping of culvert, 125 feet north of mile-	
post 18, 6 feet from south end of coping; copper bolt (B. & O. R. R.	
b. m. 109)	192.624
Hollofield, culvert near target at tower, in north end of east coping;	
copper bolt (B. & O. R. R. b. m. 110)	199. 996
Hollofield, 0.8 mile northwest of, on south side of tracks, at telegraph	
pole 19-34, in large rock; copper bolt (B. & O. R. R. b. m. 111)	215.712
Alberton, 0.2 mile west of, in Baltimore County, on west abutment of	
bridge 17, between tracks; copper bolt (B. & O. R. R. b. m. 112)	222.352
Alberton, near, at Dorseys Run, in center of southeast coping of arch	
culvert; copper bolt (B. & O. R. R. b. m. 113)	237.053
Alberton, near, 0.4 mile west of Dorseys Run, in center of north cop-	
ing of arch culvert 21; copper bolt (B. & O. R. R. b. m. 114)	244.826
Davis, near, 1 mile west of Dorseys Run, in center of north coping	
of arch culvert 22; copper bolt (B. & O. R. R. b. m. 115)	249. 406
Davis, in center of west coping of arch culvert 23; copper bolt (B. &	
O. R. R. b. m. 116)	2 58. 759
Woodstock, 500 feet east of, in south end of small culvert; copper bolt	
(B. & O. R. R. b. m. 117)	271.564
Woodstock, near, at milepost 26, between tracks; top of vertical rail	
section (B. & O. R. R. b. m. 118)	288. 221
Marriottsville, near, 2 miles northwest of Woodstock, in retaining	
wall on east side of tracks, 20 feet west of telegraph pole 26-28;	
copper bolt (B. & O. R. R. b. m. 119)	291. 600
Marriottsville, in north end of west mud wall of bridge 25; copper	000 044
bolt (B. & O. R. R. b. m. 120)	292. 841
Henryton, near, 300 feet east of Henryton tunnel, in bridge seat of	. `
west abutment of bridge 26; between tracks; copper bolt (B. & O. R. R. b. m. 121)	000 100
Gorsuch, near, 100 feet west of milepost 29, in north end of small box	299. 160
·	. 910. 044
culvert; copper bolt (B. & O. R. R. b. m. 122) Gorsuch, in north end of west abutment of culvert 27; copper bolt	310. 944
(B. & O. R. R. b. m. 123)	323, 638
Sykesville, near, opposite milepost 31, between tracks; top of vertical	520. 00G
rail section (B. & O. R. R. b. m. 124)	351. 072

•	
Sykesville, 100 feet west of station, in center of south coping of culvert; copper bolt (B. & O. R. R. b. m. 125)	Feet. 375. 944
Gaither, near, in seat of bridge at west end of Sykesville tunnel, be-	
tween tracks; copper bolt (B. & O. R. R. b. m. 126)Gaither, 0.2 mile southwest of, in north end of west abutment of	408. 779
bridge 28; copper bolt (B. & O. R. R. b. m. 127)	419. 235
FLINTSTONE QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 78° 30'-78° 45'.]	
From point near Little Orleans to point near Cumberland.	•
Little Orleans, 14 miles southwest of, at north end of canal tunnel, a short distance below level of towpath; square cut on stone	****
foundation (C. & G. S. b. m. No. XIV)Oldtown, 5 miles east of, on coping stone of Chesapeake & Ohio Canal	532. 357
Lock 67; square cut (C. & G. S. b. m. No. XV)	540. 393
Cumberland, 9.2 miles east of, on coping stone of Lock 72 of Chesapeake & Ohio Canal; square cut (C. & G. S. b. m. No. XVI)	587. 676
From point near North Branch along Baltimore & Ohio R. R. to point near Evitts Creek.	
North Branch, 0.5 mile southeast of, opposite milepost 172, between	
tracks; top of vertical rail section (B. & O. R. R. b. m. 147) North Branch, bridge over north branch of Potomac River, in bridge seat of west abutment, between tracks; copper bolt (B. & O.	598. 307
R. R. b. m. 147 A)	602. 514
North Branch, 0.5 mile northwest of, opposite milepost 173, between tracks; top of vertical rail section (B. & O. R. R. b. m. 148)	625. 176
North Branch, 1.5 miles northwest of, opposite milepost 174, between	
tracks; top of vertical rail section (B. & O. R. R. b. m. 149)	637.056
Evitts Creek, 1 mile southeast of, opposite milepost 175, between tracks; top of vertical rail section (B. & O. R. R. b. m. 150)	629. 429
FROSTBURG QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 78° 45'-79°.]	
From Cumberland southwest 12 miles.	
Cumberland, at western terminus of Chesapeake & Ohio Canal, on coping stone of feed lock; cut marked "I B□M U.S.C.S. 1878"	
(C. & G. S. b. m. I)	623. 766
Cumberland, 5.5 miles southwest of, on abutment of small drain on Baltimore & Ohio R. R.; cut marked "B□M" (C. & G. S. b. m.	047 9 09
No. XVII)Cumberland, 12 miles southwest of, at southwest angle of drain on	647. 393
Baltimore & Ohio R. R.; cut on foundation stone, marked "B M" (C. & G. S. b. m. No. XVIII)	393. 992
From point near Evitts Creek along Baltimore & Ohio R. R. to point 2 miles south of Cooks Mills.	
Evitts Creek, 0.1 mile west of, opposite milepost 176, between tracks;	•
top of vertical rail section (B. & O. R. R. b. m. 151)	638. 435
Cumberland, 1 mile east of, opposite milepost 177, between tracks; top of vertical rail section (B. & O. R. R. b. m. 152)	648. 129
	J_U

Cumberland, opposite milepost 178, between tracks; top of vertical rail section (B. & O. R. B. b. m. 153)	Feet. 632. 601
Cumberland, Queen City Hotel, in front of railing to right of stairway	
leading to relief department, in top of wall; copper bolt (B. & O. R. R. b. m. 153 A)	639. 762
Cumberland, Grafton Line, at east end of viaduct bridge, on south	
side of tracks; copper bolt (B. & O. R. R. b. m. 154)	644. 338
Cumberland, 1.5 miles west of, on south side of tracks, in foundation	
of overhead foot bridge; copper bolt (B. & O. R. R. b. m. 155)	653. 430
Cumberland, 2.5 miles west of, Pennsylvania R. R. overhead crossing at the Narrows, in south end of east pier of north span; copper bolt	
(B. & O. R. R. b. m. 156)	656. 199
Mount Savage Junction, east abutment of first bridge east of, between	
tracks; copper bolt (B. & O. R. R. b. m. 157)	681. 468
Mount Savage Junction, east abutment of bridge 1 of Connellsville	710 440
Division, between tracks; copper bolt (B. & O. R. R. b. m. 158)	710. 440
Ellerslie, in bridge seat of east abutment of bridge 2½, between	707 071
tracks; copper bolt (B. & O. R. R. b. m. 160 A)	727. 971
From point near Cumberland along Baltimore & Ohio R. R. to point near Dawson.	
Cumberland, near Green Street station, overhead bridge 180 C, in	
north end of extension of west abutment; copper bolt (B. & O.	
R. R. b. m. 1)	647. 699
Robert station, near, 700 feet south of milepost 181, in west end of	
south wall of small culvert; copper bolt (B. & O. R. R. b. m. 3)	632. 911
Robert station, 0.1 mile south of, at telegraph pole 182-7, on small	
arch culvert, in north coping; copper bolt (B. & O. R. R. b. m. 4)_	637. 475
Cedar Cliff, near, on culvert at telegraph pole 183-11, in north cop-	
ing; copper bolt (B. & O. R. R. b. m. 5)	648. 532
Cedar Cliff, near, at telegraph pole 184-6, stone culvert, in north	
end of west coping; square cut (B. & O. R. R. b. m. 6)	647. 706
Brady, near, at telegraph pole 184-22, north side of abutment to	045 055
bridge 71; copper bolt (B. & O. R. R. b. m. 6 A)	647. 277
Brady, 0.1 mile southwest of, at telegraph pole 185-10, in east end of north coping of culvert; copper bolt (B. & O. R. R. b. m. 7)	660. 150
Brady, 1 mile southwest of, at telegraph pole 186–2, west of tracks,	000, 100
in native rock; copper bolt (B. & O. R. R. b. m. 7Å)	666. 668
McKenzie station, 0.5 mile east of, at telegraph pole 186 37, on un-	000,000
dergrade highway bridge crossing, in north abutment; copper bolt	
(B. & O. R. R. b. m. 8)	680.759
Potomac station, on undergrade highway bridge, in north abutment;	
copper bolt (B. & O. R. R. b. m. 9)	688.345
Pinto, near, 500 feet northeast of milepost 189, on arch culvert, in	
north coping; copper bolt (B. & O. R. R. b. m. 10)	672. 482
Lowndes, near, 150 feet southwest of milepost 190, on culvert, in	
north coping; copper bolt (B. & O. R. R. b. m. 11)	683. 240
Cresap, near, at telegraph pole 190-23, on culvert in north abutment;	000 00 -
copper bolt (B. & O. R. R. b. m. 12)	698. 825
Rawlings, 800 feet southwest of, on bridge 75, opposite telegraph pole 191-23, in bridge seat of abutment toward Wheeling; copper bolt	
(B. & O. R. R. b. m. 13)	703. 575
Rawlings, near, opposite milepost 193, between tracks; top of vertical	100.010
rail section (B. & O. R. R. b. m. 14)	718. 319
•	

tical rail section (B. & O. R. R. b. m. 15)	Feet. 724. 961
Black Oak, 200 feet southwest of, opposite milepost 195, between	124. 901
tracks; top of vertical rail section (B. & O. R. R. b. m. 16)	743. 804
Black Oak, 0.9 mile southwest of, at telegraph pole 195–30, Western	
Maryland Ry. bridge, in northwest end of northeast abutment;	
copper bolt (B. & O. R. R. b. m. 17)	740. 252
GUNPOWDER QUADRANGLE.	
[Latitude 39° 15'-39° 30'; longitude 76° 15'-76° 30'.]	
From milepost 74 along Pennsylvania R. R. to N-I tower.	·
Milepost 74, 1,530 feet north of, southeast coping of box culvert; cop-	-
per bolt (P. R. R. b. m. 70)	21.84
Milepost 74, 1,450 feet south of, southeast coping of cattle yard;	
copper bolt (P. R. R. b. m. 71)	24. 34
Milepost 75, 390 feet south of, east coping of box culvert; copper	
bolt (P. R. R. b. m. 72)	20. 80
Milepost 76, 75 feet north of, southeast coping of box culvert; copper bolt (P. R. R. b. m. 73)	30. 16
Magnolia, doorstep of water station; copper bolt (P. R. R. b. m. 74)_	26. 78
Milepost 78, 960 feet south of, northwest coping of box culvert;	200
copper bolt (P. R. R. b. m. 75)	11.54
Harewood Park, 780 feet north of, southeast coping of box culvert;	
copper bolt (P. R. R. b. m. 76)	8. 32
Milepost 81, 3,330 feet south of, northeast coping of box culvert;	04.00
copper bolt (P. R. B. b. m. 77) Milepost 82, 880 feet south of, northeast coping of arch; copper bolt	24. 60
(P. R. B. b. m. 78)	15. 20
Milepost 83, 400 feet south of, southwest coping of box culvert;	20.20
copper bolt (P. R. R. b. m. 79)	30. 96
Middle River, station step; no mark (P. R. R. b. m. 79a)	32. 23
Milepost 86, 1,590 feet south of, northwest coping of iron pipe; no mark (P. R. R. b. m. 80)	39. 04
Stemmer's Run, 150 feet south of, northwest back wall of undergrade	30.02
road bridge; no mark (P. R. B. b. m. 81)	22.92
Milepost 88, southeast coping of arch; copper bolt (P. R. R. b. m. 82)_	12.80
Milepost 89, 1,170 feet south of, northwest coping of box culvert;	
copper bolt (P. R. R. b. m. 83)	19.40
From milepost 11 along Baltimore & Ohio R. R. to Belcamp.	
Milepost 11, opposite, between tracks; vertical rail section (B. & O.	
R. R. b. m. 51)	48.793
Rossville, at telegraph pole 84-30, on east abutment of bridge 6 B,	•
in south end of bridge seat; copper bolt (B. & O. R. R. b. m. 51 A)_	37. 322
Rossville, near, at telegraph pole 83-24, in bridge seat on east abut-	
mont of bridge 8 A, between westbound track and siding; copper	70. 220
bolt (B. & O. R. R. b. m. 52)Poplar, opposite milepost 13; vertical rail section between tracks (B. &	70. 380
O. R. B. b. m. 53)	96. 455
Poplar, near, opposite milepost 14, between tracks; vertical rail sec-	•
tion (B. & O. R. R. b. m. 54)	65. 759

•	
Cowenton, near, in north end of east abutment of bridge 10 A, at telegraph pole 81-24; copper bolt (B. & O. R. R. b. m. 54 A)	Feet. 51. 615
Cowenton, 500 feet west of station, in southwest capstone of bridge 11 A; copper bolt (B. & O. R. R. b. m. 55)	30.688
Cowenton, near, opposite milepost 16, between tracks; vertical rail	. 000
section (B. & O. R. R. b. m. 56) Loreley, opposite milepost 17, between tracks; vertical rail section	49. 537
(B. & O. R. R. b. m, 57)	92. 300
Loreley, 0.2 mile east of, in capstone at south end of west abutment of bridge 13 B; copper bolt (B. & O. R. R. b. m. 58)	84. 152
Big Gunpowder bridge, at east end of, in east end of south coping;	01. 102
copper bolt (B. & O. R. R. b. m. 58 A) Bradshaw, near milepost 19, in south end of west abutment of bridge	63. 900
14 B; copper bolt (B. & O. R. R. b. m. 59)	54.638
Joppa, 0.5 mile east of Bradshaw, north end of east abutment of bridge 150; copper bolt (B. & O. R. R. b. m. 60)	44. 007
Clayton Tower, opposite milepost 21, at Joppa, between tracks; ver-	44.001
tical rail section (B. & O. R. R. b. m. 61)	89. 301
Clayton, 0.2 mile west of, opposite milepost 22, between tracks; top of vertical rail section (B. & O. R. R. b. m. 62)	102, 201
Milepost 23, opposite, between tracks; top of vertical rail section	
(B. & O. R. B. b. m. 63)———————————Van Bibber, 0.5 mile west of, in east end of south coping of east abut-	60. 573
ment of bridge 19 A; copper bolt (B. & O. R. R. b. m. 63 A)	40. 418
Milepost 24, east of Van Bibber, between tracks; top of vertical rail section (B. & O. R. R. b. m. 64)	26. 596
Bush River, opposite milepost 25, between tracks; top of vertical rail	40, 999
section (B. & O. R. R. b. m. 65)	40, 222
top of vertical rail section (B. & O. R. R. b. m. 66)	62. 727
HAGERSTOWN QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 77° 30'-77° 45'.]	
At Hagerstown.	•
Hagerstown, at corner of Washington and Jonathan streets, on Jonathan Street side of courthouse; cut on water table (C. & G. S. b. m. A)	552. 033
HANCOCK QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 78°-78° 15'.]	
From Cherry Run to point near Hancock.	
Cherry Run, nearly opposite station of Baltimore & Ohio R. R., on	
coping stone at upper end of "overflow" at "Big Pool," Chesapeake & Ohio Canal; square cut (C. & G. S. b. m. VII)	40E 474
Hancock, 8 miles east of Chesapeake & Ohio Canal aqueduct over Licking Creek, cut on coping stone, lettered "E.B. M., U.S.C.S.,	405. 474
1878" (C. & G. S. b. m. E)	404. 623
Hancock, 1 mile east of, on coping stone at southeast end of Lock 52, Chesapeake & Ohio Canal; square cut (C. & G. S. b. m. VIII)_Hancock, on middle of north side of Chesapeake & Ohio Canal	418. 224
aqueduct, on coping stone; cut lettered "F.B	420. 714

HAVRE DE GRACE QUADRANGLE.

[Latitude 39° 30'-39° 45'; longitude 76°-76° 15'.]

From milepost 56 along Pennsylvania R. R. to milepost 64.

Milepost 56, 2,070 feet north of, in southeast coping of box culvert;	Feet.
copper bolt (P. R. R. b. m. 52)	74. 97
Principle, doorsill of station; copper bolt (P. R. R. b. m. 53)	67.43
Milepost 5.7, 1,800 feet south of, in stone monument north of cattle	00 =4
guard; copper bolt (P. R. R. b. m. 54)	62. 54
Milepost 59, 2,070 feet south of, on northwest wing wall of overhead	00.40
road crossing; copper bolt (P. R. R. b. m. 55)	36. 40
Perryville, northwest back wall of Susquehanna River bridge; cop-	
per bolt (P. R. R. b. m. 56)	27.38
Havre de Grace, southwest back wall of Susquehanna River bridge;	
copper bolt (P. R. R. b. m. 57)	28. 92
Milepost 61, 90 feet north of, southeast back wall; copper bolt	
(P. R. B. b. m. 58)	24. 34
Milepost 62, 240 feet south of, in southeast wall of cattle guard;	
copper bolt (P. R. R. b. m. 59)	44.82
Oakington, 1,050 feet north of, in southwest parapet of arch; copper	
bolt (P. R. R. b. m. 60)	49.98
Milepost 64, 180 feet north of, northeast coping of Swan Creek arch;	
copper bolt (P. R. R. b. m. 61)	53. 13
From Perryville along Pennsylvania R. R. to point near Haines.	
From Perryvine along Pennsylvania R. R. to point near fixines,	
Frenchtown, at south end of Baltimore & Ohio R. R. pier, east of	
track; shelf (P. R. R. b. m. 1)	26. 12
Milepost 3, 550 feet east of, 20 feet north of track, in rock; copper	
bolt (P. R. R. b. m. 2)	20.93
Milepost 4, 1,980 feet east of, in northeast seat of bridge 27; copper	
bolt (P. R. R. b. m. 3)	5.63
Milepost 5, 570 feet east of, in southeast parapet of open box culvert;	
copper bolt (P. R. R. b. m. 4)	8.47
Milepost 6, 870 feet west of, in southwest back wall of open box cul-	
vert; copper bolt (P. R. B. b. m. 5)	21, 27
Milepost 7, 330 feet east of, in southeast back wall of open box cul-	
vert; copper bolt (P. R. R. b. m. 6)	29, 07
Milepost 8, 720 feet east of, in southwest back wall of open box cul-	20.01
vert; copper bolt (P. R. R. b. m. 7)	31. 83
Milepost 9, 270 feet west of, in southwest seat of first bridge west	0.1.00
of Octoraro; copper bolt (P. R. R. b. m. 8)	35. 63
Milepost 10, 360 feet east of, southeast coping of box culvert; copper	00.00
bolt (P. R. R. b. m. 9)	44.64
Milepost 11, 210 feet west of, on rock north of track; shelf (P. R. R.	11.01
b. m. 10)	58. 80
Conowingo, southwest seat of county bridge; copper bolt (P. R. R.	90.00
b. m. 11)	69. 11
Milepost 13, 1,470 feet east of, on rock south of track; shelf (P. R. R.	09. 11
b. m. 12)	77.18
Milepost 13, 2,160 feet west of, on rock north of track; shelf (P. R. R.	11.15
	70 70
b. m. 13)	76. 70
Milepost 15, 2,310 feet east of, in southwest parapet of arch; copper	90.49
bolt (P. R. R. b. m. 14)	80. 48

From point near Stepney along Baltimore & Ohio R. R. to point near Foys Hill.	
	Feet.
Milepost 31, vertical rail section (B. & O. R. R. b. m. 71)	64.320
Aberdeen, south end of west abutment of bridge 27 A, at telegraph	#4 F40
pole 64-13; copper bolt (B. & O. R. R. b. m. 72)	71. 510
Aberdeen, 0.2 mile east of, in north end of east abutment of bridge 28 A; copper bolt (B. & O. R. B. b. m. 73)	99 547
Milepost 34, opposite, between tracks; vertical rail section (B. & O.	82. 547
R. R. b. m. 74)	65. 857
Osborne, west of station, in south end of west abutment of bridge	33.33.
30 B; copper bolt (B. & O. R. R. b. m. 75)	71. 387
Milepost 36, opposite, between tracks; vertical rail section (B. & O.	
R. R. b. m. 76)	75.910
Havre de Grace, 0.2 mile west of, opposite milepost 37, between	
tracks; vertical rail section (B. & O. R. R. b. m. 77)	103.025
Susquehanna River bridge, in south end of west abutment; copper	
bolt (B. & O. R. R. b. m. 78)	94. 647
Aiken, in south end of bridge seat on east abutment of Susquehanna	04 040
River bridge; copper bolt (B. & O. R. R. b. m. 79)	91. 018
Aiken, 0.5 mile east of, at milepost 40, between tracks; vertical rail section (B. & O. R. R. b. m. 80)	115. 730
Aiken, 1 mile east of, in north capstone of west abutment of bridge	119. 190
36 A; copper bolt (B. & O. R. R. b. m, 80 A)	129. 046
Jackson, 0.4 mile west of, at milepost 41, between tracks; vertical rail	120.010
section (B. & O. R. R. b. m. 81)	147. 723
Belvedere, 0.5 mile east of Jackson, in north end of west abutment of	
bridge 37; copper bolt (B. & O. R. R. b. m. 82)	149. 351
Milepost 43, opposite, between tracks; vertical rail section (B. & O.	
TD TD 1 000	
R. R. b. m. 83)	179. 349
Foys Hill, opposite milepost 44, between tracks; vertical rail section	
	179. 349 217. 372
Foys Hill, opposite milepost 44, between tracks; vertical rail section	
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. B. b. m. 84)	
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. B. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.]	
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. B. b. m. 84)	
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical	217. 372
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142)	
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; cop-	217. 372 473. 502
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143)	217. 372
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of	217. 372 473. 502 427. 254
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144)	217. 372 473. 502
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph	217. 372 473. 502 427. 254 391. 024
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51-23; copper bolt (B. & O. R. R. b. m. 145)	217. 372 473. 502 427. 254
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51-23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph	217. 372 473. 502 427. 254 391. 024 377. 146
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146)	217. 372 473. 502 427. 254 391. 024
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical rail section (B. & O. R. R. b. m. 147)	217. 372 473. 502 427. 254 391. 024 377. 146
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51-23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52-19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical	217. 372 473. 502 427. 254 391. 024 377. 146 360. 117
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical rail section (B. & O. R. R. b. m. 147) Ijamsville, 0.8 mile west of, between tracks, east seat of bridge near milepost 54; copper bolt (B. & O. R. R. b. m. 148)	217. 372 473. 502 427. 254 391. 024 377. 146 360. 117
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical rail section (B. & O. R. R. b. m. 147) Ijamsville, 0.8 mile west of, between tracks, east seat of bridge near milepost 54; copper bolt (B. & O. R. R. b. m. 148) Ijamsville, near, between tracks, in west seat of new bridge at west	217. 372 473. 502 427. 254 391. 024 377. 146 360. 117 351. 925 329. 561
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical rail section (B. & O. R. R. b. m. 147) Ijamsville, 0.8 mile west of, between tracks, east seat of bridge near milepost 54; copper bolt (B. & O. R. R. b. m. 148) Ijamsville, near, between tracks, in west seat of new bridge at west end of Ijamsville tunnel; copper bolt (B. & O. R. R. b. m. 149) ———————————————————————————————————	217. 372 473. 502 427. 254 391. 024 377. 146 360. 117 351. 925
Foys Hill, opposite milepost 44, between tracks; vertical rail section (B. & O. R. R. b. m. 84) IJAMSVILLE QUADRANGLE. [Latitude 39° 15′-39° 30′; longitude 77° 15′-77° 30′.] From point near Monrovia along Baltimore & Ohio R. R. to point near Doubs. Monrovia, near, opposite milepost 49, between tracks; top of vertical rail section (B. & O. R. R. b. m. 142) Monrovia, 300 feet west of, in east bridge seat, between tracks; copper bolt (B. & O. R. R. b. m. 143) Monrovia, near, in north end of east seat of bridge, 40 feet east of milepost 51; copper bolt (B. & O. R. R. b. m. 144) Monrovia, near, in center of north coping of arch culvert, telegraph pole 51–23; copper bolt (B. & O. R. R. b. m. 145) Ijamsville, near, north end of small culvert, 20 feet east of telegraph pole 52–19; copper bolt (B. & O. R. R. b. m. 146) Ijamsville, near, opposite milepost 53, between tracks; top of vertical rail section (B. & O. R. R. b. m. 147) Ijamsville, 0.8 mile west of, between tracks, east seat of bridge near milepost 54; copper bolt (B. & O. R. R. b. m. 148) Ijamsville, near, between tracks, in west seat of new bridge at west	217. 372 473. 502 427. 254 391. 024 377. 146 360. 117 351. 925 329. 561

Reels Mill, in foundation stone, southwest corner of coal chute;	Feet.
copper bolt (B. & O. R. R. b. m. 151) Frederick Junction, Monocacy River bridge, in north end of mud	274. 062
wall of east abutment; copper bolt (B. & O. R. R. b. m. 152)	266. 147
Frederick Junction, 1 mile from, in south end of west coping of culvert; copper bolt (B. & O. R. B. b. m. 152 A)	284. 950
Frederick, 1.8 miles from, in outcropping limestone, east side of track,	, ====
7 telegraph poles south of milepost marked "Frederick 2," at north end of cut; copper bolt (B. & O. R. R. b. m. 152 B)	302. 577
Frederick, 300 feet south of station, in native rock west of tracks;	
copper bolt (B. & O. R. R. b. m. 152 C) Frederick Junction, 1 mile west of, 50 feet east of telegraph pole	289. 294
58-34, in west end of south coping of culvert; copper bolt (B. & O.	
R. R. b. m. 153)Frederick Junction, 1.5 miles west of, in west end of north coping of	252. 234
culvert 36; copper bolt (B. & O. R. R. b. m. 153 A)	251. 244
Lime Kiln, near, opposite milepost 60, between tracks; top of vertical rail section (B. & O. R. R. b. m. 154)	271. 897
Lime Kiln, 0.5 mile west of, opposite milepost 61, between tracks; top	2(1,00)
of vertical rail section (B. & O. R. R. b. m. 155) Buckeystown station, 0.3 mile east of, opposite milepost 62, between	283. 637
tracks; top of vertical rail section (B. & O. R. R. b. m. 156)	277. 526
Buckeystown station, in west end of north coping of culvert; copper bolt (B. & O. R. B. b. m. 156 A)	282. 160
Buckeystown, near, opposite milepost 63, between tracks; top of ver-	202. 100
tical rail section (B. & O. R. R. b. m. 157)Adamstown, 0.2 mile east of, opposite milepost 64, between tracks;	299. 146
top of vertical rail section (B. & O. R. R. b. m. 158)	310. 328
Doubs, 500 feet east of, in center of north coping of culvert 36½, 275 feet west of milepost 65; copper bolt (B. & O. R. R. b. m. 159)	285. 522
From point near Tuscarora along Baltimore & Ohio R. R. to point near Washington Junction.	
Tuscarora, 0.3 mile east of, in south end of east wall of box culvert,	
150 feet west of milepost marked "Washington 39 miles"; copper bolt (B. & O. R. B. b. m. 40 A)	226. 092
Tuscarora, 0.7 mile west of, on south side of tracks, near milepost	220.092
40, on top of vertical rail section; cross (B. & O. R. R. b. m. 41) Tuscarora, 1.7 miles west of, south side of tracks, near milepost 41;	2 26. 7 46
top of vertical rail section (B. & O. R. R. b. m. 42)	226. 827
KEYSER QUADRANGLE.	. •
[Latitude 39° 15'-39° 30'; longitude 78° 45'-79°.]	
In the vicinity of Dawson.	
Dawson, 0.5 mile northeast of, at telegraph pole 196-24½, south side	#F0 0##
of track, in rock; copper bolt (B. & O. R. R. b. m. 18) Dawson, near, west of tracks, 30 feet north of telegraph pole 197-30,	756. 077
in native rock; copper bolt (B. & O. R. R. b. m. 19)	772. 837
Dawson, near, on arch 76, telegraph pole 198-11½, in north coping; copper bolt (B. & O. R. R. b. m. 20)	776. 177
Dawson, near, on northwest abutment of bridge 77, opposite telegraph	-
pole 199–17, near twenty-first bridge station, in bridge seat between tracks; copper bolt (B. & O. R. R. b. m. 21)	790. 231

LAUREL QUADRANGLE.

[Latitude 39°-39° 15'; longitude 76° 45'-77°.]

At Bowie.

Bowie, at Baltimore & Potomac R. R. station, on sill of danger signal (C. & G. S. b. m. VII)	Feet. 148. 595
From point near Branchville along Baltimore & Ohio R. R. to point near Dorsey.	
Branchville, 0.2 mile north of, at telegraph pole 29-24, in south end of east coping of box culvert; copper bolt (B. & O. R. R. b. m. 10)	65. 680
Branchville, 0.8 mile northeast of, opposite milepost 29, between tracks; top of vertical rail section (B. & O. R. R. b. m. 11)	77. 546
Sunnyside, 0.5 mile north of, telegraph pole 27-24, in middle of east coping of culvert; copper bolt (B. & O. R. R. b. m. 12)	101. 331
Beltsville, 0.6 mile north of, at telegraph pole 26-20, in west end of bridge seat, on north abutment of bridge; copper bolt (B. & O.	2020 002
R. R. b. m. 13)Ammendale, near, opposite milepost 26, between tracks; top of verti-	125. 437
cal rail section (B. & O. R. R. b. m. 14) Muirkirk, near, opposite telegraph pole 25-7, in middle of south	137. 839
coping of culvert; copper bolt (B. & O. R. R. b. m. 14 A) Muirkirk, 0.1 mile southwest of, overhead bridge at Muirkirk furnace, in southwest end of foundation of southeast abutment; cop-	152. 634
per bolt (B. & O. R. R. b. m. 15)Contee, 0.4 mile southwest of, opposite milepost 24, between tracks;	157. 667
top of vertical rail section (B. & O. R. R. b. m. 16) Contee, 0.3 mile northeast of, at telegraph pole 23–11, in northwest end of bridge seat, on northeast abutment of bridge; copper bolt (B. &	179. 271
O. R. R. b. m. 17)Oak Crest, 0.2 mile northeast of, at telegraph pole 22-24, in center of southeast coping of culvert; copper bolt (B. & O. R. R.	175. 921
b. m. 17 A)————————————————————————————————————	169. 683
b. m. 18)	155. 117
b. m. 19)Savage station, near, about on Anne Arundel-Howard county line, opposite milepost 20, between tracks; top of vertical rail section	149. 215
(B. & O. R. R. b. m. 20)Savage station, 0.1 mile east of, in south end of east abutment of	172. 896
bridge 5, telegraph pole 19-8; copper bolt (B. & O. R. R. b. m. 21) Annapolis Junction, 0.5 mile northeast of, northwest abutment of overhead bridge, in northeast end of foundation; copper bolt (B. &	154. 302
O. R. R. b. m. 22)Bridewell, 0.5 mile south of, opposite milepost 17, between tracks;	174. 540
top of vertical rail section (B. & O. R. R. b. m. 23) Bridewell, 0.1 mile east of, arch in front of State building, in west	170. 354
end of north coping; copper bolt (B. & O. R. R. b. m. 24)	168. 671

Jessups, near, opposite milepost 15, between tracks; top of vertical	Feet.
rail section (B. & O. R. R. b. m. 25)	158. 318
Montevideo, near, opposite milepost 14, between tracks; top of vertical rail section (B. & O. R. R. b. m. 26)	137. 135
From Arundel along Pennsylvania R. R. to Bowie,	
Arundel, 850 feet north of, south seat of bridge 12; copper bolt (P. R. R. b. m. 117)	75. 15
Arundel, 5,320 feet south of, southeast box culvert; copper bolt (P. R. R. b. m. 118)	124. 23
Bowie, 2,910 feet north of, east side of track; stone marker (P. R. R. b. m. 119)	165. 67
Bowie, at tower, east side of track; stone marker (P. R. R. b. m. 120)	148. 60
MOUNT AIRY QUADRANGLE.	
[Latitude 39° 15'-39° 30'; longitude 77°-77° 15'.]	
From point near Hoods Mill along Baltimore & Ohio R. R. to point near Monrovia.	
Hoods Mill, near, 100 feet west of milepost 34, in south end of small	***
culvert; copper bolt (B. & O. R. R. b. m. 128)	428. 096
Hoods Mill, at dam, on south side of tracks, in large rock; copper bolt (B. & O. R. R. b. m. 129)	441. 836
Morgan, near, opposite milepost 36, between tracks; top of vertical	
rail section (B. & O. R. R. b. m. 130)	460.741
Woodbine, near, opposite milepost 37, between tracks; top of vertical	
rail section (B. & O. R. R. b. m. 131)	485.970
Woodbine, 300 feet west of, in northeast corner of small culvert;	
copper bolt (B. & O. R. R. b. m. 131 A)	495. 871
Woodbine, near, opposite milepost 38, between tracks; top of vertical	#40 # 00
rail section (B. & O. R. R. b. m. 132)	513. 733
Watersville, near, in bridge seat of east abutment of bridge, at east end of Mount Airy cut-off, between tracks; copper bolt (B. & O.	
R. R. b. m. 133)	550.512
Watersville, 0.2 miles west of, on Mount Airy cut-off, in north coping of culvert; copper bolt (B. & O. R. R. b. m. 134)	593. 519
Watersville, 1 mile west of, at east end of cut on Mount Airy cut-off,	0001 010
in west end of south coping of culvert; copper bolt (B. & O. R. R.	
b. m. 135)	622.060
Watersville, at east end of Mount Airy tunnel, between tracks; top	
of vertical rail section (B. & O. R. R. b. m. 136)	703. 202
Watersville, near, in Frederick County, at west end of Mount Airy tunnel, between tracks; top of vertical rail section (B. & O. R. R.	
b. m. 136 A)	679.926
Plane No. 4, near, 0.2 mile east of Mount Airy Junction, 0.5 mile west of Mount Airy tunnel, in east end of south coping of culvert; cop-	
per bolt (B. & O. R. R. b. m. 137)	657.334
Plane No. 4, 250 feet east of, in east end of north coping of arch;	
copper bolt (B. & O. R. R. b. m. 138)	581. 314
Bartholows, 0.3 mile east of, on south side of tracks, 500 feet west	
of milepost 47, in east end of small culvert; copper bolt (B. & O.	
R. R. b. m. 139)	550. 150

Bartholows, 300 feet west of, in west end of north coping of arch Feet. road crossing; copper bolt (B. & O. R. R. b. m. 140) 528.403 Monrovia, near, in north end of small culvert, 400 feet west of crossing of old and new tracks; copper bolt (B. & O. R. R. b. m. 141)___ 489.494 OAKLAND QUADRANGLE. [Latitude 39° 15'-39° 30'; longitude 79° 15'-79° 30'.] From point near Deer Park west to Huttons Switch. Deer Park, a short distance north of, on top stone of cattle guard; cut marked "B. M." (C. & G. S. b. m. XXIII) _____ 2,455.959 Oakland Park, 3 miles east of, on west abutment of small bridge (Baltimore & Ohio R. R.); cut marked "B. M." (C. & G. S. b. m. XXII) _____ 2, 404. 324 Oakland, 1.2 miles west of, southwest corner of Baltimore & Ohio R. R. bridge over Youghiogheny River; cut on abutment lettered "K, B. M., U, S, C, S., 1878" (C, & G, S, b, m, K))______2,375,518 Huttons Switch station, Baltimore & Ohio bridge over small run; square cut on abutment (C. & G. S. b. m. XXIV)______ 2,434.343 From point near Altamont west along Baltimore & Ohio R. R. to point near Hutton. Altamont, 1.2 miles northeast of, opposite milepost 222, between tracks; top of vertical rail section (B. & O. R. R. b. m. 43) ____ 2,541.970 Altamont, 0.2 mile east of, opposite milepost 223, about at summit, between tracks; top of vertical rail sections (B. & O. R. R. b. m. 44) _ 2,627.936 Altamont, 0.8 mile west of, opposite milepost 224, between tracks; top of vertical rail section (B. & O. R. R. b. m. 45)______ 2,578.503 Deer Park, 1 mile east of, opposite milepost 225, between tracks; top of vertical rail section (B. & O. R. R. b. m. 46) _____ 2,526.474 Deer Park, 200 feet east of station, opposite milepost 226, between tracks; top of vertical rail section (B. & O. R. R. b. m. 47) _____ 2,473,496 Deer Park, 500 feet northeast of station for Deer Park Hotel, at telegraph pole 226-141; in southwest corner of culvert; copper bolt (B. & O. R. B. b. m. 47 A) _______ 2,449.099 Deer Park, near, 0.6 mile southwest of station for Deer Park Hotel, opposite milepost 227, between tracks; top of vertical rail section (B. & O. R. R. b. m. 48) ______ 2,436.892 Mountain Lake Park, 1.2 miles east of, opposite milepost 228, between tracks; top of vertical rail section (B. & O. R. R. b. m. 49)_ 2,422.405 Mountain Lake Park, 0.2 mile east of, at telegraph pole 229-62, on west abutment of bridge S6, in west end of north wing; copper bolt (B. & O. R. R. b. m. 50) ________2,404.683 Mountain Lake Park, 0.3 mile west of, at telegraph pole 229-29, in north abutment of bridge; copper bolt (B. & O. R. R. b. m. 51)___ 2,396,994 Oakland, 1 mile south of, opposite milepost 231, between tracks; top of vertical rail section (B. & O. R. R. b. m. 52)______ 2,383.138 Oakland, 300 feet southeast of station, on bridge, in abutment toward Wheeling, 7 feet below grade; copper bolt (B. & O. R. R. b. m. 53) 2, 370. 924 Oakland, 0.5 mile northwest of, opposite telegraph pole 232-22, on

northeast abutment of highway bridge, in northeast end of south. east wing; copper bolt (B. & O. R. R. b. m. 53 A)_________2,377.119

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Oakland, 1.5 miles northwest of, on bridge 88 over foughtogneny	•
River, in bridge seat of abutment toward Wheeling; copper bolt	Feet.
(B. & O. R. R. b. m. 54)	2, 377. 707
Oakland, 2 miles northwest of, opposite milepost 234, between tracks;	
top of vertical rail section (B. & O. R. R. b. m. 55)	2, 402. 333
Oakland, 3 miles west of, opposite milepost 235, between tracks; top	
of vertical rail section (B. & O. R. R. b. m. 56)	2, 442. 714
Skipnish, near, opposite milepost 236, between tracks; top of vertical	
rail section (B. & O. R. R. b. m. 57)	2, 454. 449
Hutton, 0.5 mile southeast of, opposite milepost 237, between tracks;	0 100 0=1
top of vertical rail section (B. & O. R. R. b. m. 58)	2, 482. 274
Hutton, 0.5 mile northwest of, opposite milepost 238, between tracks;	0 445 500
top of vertical rail section (B. & O. R. R. b. m. 59)	2, 445. 563
PARKTON QUADRANGLE.	
[Latitude 39° 30′-39° 45′; longitude 76° 30′-76° 45′.]	
From milepost 17 along Pennsylvania R. R. to milepost 37.	
Wilmost 17 000 feet couth of northeast and divide 10	
Milepost 17, 990 feet south of, northeast wing of bridge 18; copper	054 50
bolt (P. R. R. b. m. 19)	254. 59
Phænix, northwest wing of bridge 20; copper bolt (P. R. R. b. m. 20) – Milepost 19, 1,800 feet south of, southeast coping of bridge 23; copper	244. 15
bolt (P. R. R. b. m. 21)	254. 85
Sparks, west center of arch; copper bolt (P. R. R. b. m. 22)	253. 93
Milepost 20, 1,230 feet north of, east center of arch; copper bolt	200.00
(P. R. B. b. m. 23)	2 56. 62
Milepost 21, 3,420 feet north of, southwest back wall of bridge 27; cop-	•
per bolt (P. R. R. b. m. 24)	290 03
Corbett, 1,650 feet north of, southeast back wall of bridge 28; copper	
bolt (P. R. R. b. m. 25)	309. 58
Milepost 23, 2,400 feet north of, east center of box culvert; copper	
bolt (P. R. R. b. m. 26)	317.52
Blue Mount, 700 feet south of, southeast seat of bridge 30; copper	010.00
bolt (P. R. R. b. m. 27)	313. 28
Milepost 26, 900 feet south of, southwest wing of bridge 35; copper	999 49
bolt (P. R. R. b. m. 28)Milepost 27, 270 feet south of, southeast back wall; copper bolt (P.	332. 18
R. R. b. m. 29)	252 77
Milepost 28, 300 feet north of, 60 feet east of track, in rock; copper	353. 77
bolt (P. R. R. b. m. 30)	393. 70
Parkton, 300 feet south of station, 175 feet east of track, in rock; cop-	000.10
per bolt (P. R. R. b. m. 31)	419. 49
Bentley, 1,300 feet south of, northwest wing of bridge 53; copper bolt	• •
(P. R. B. b. m. 33)	501.82
Milepost 32, 2,370 feet north of, northwest wing of bridge 57; copper	
bolt (P. R. R. b. m. 34)	552. 58
Milepost 34, 960 feet south of, southwest seat of bridge 60; copper	
bolt (P. R. R. b. m. 35)	647.69
Milepost 35, 600 feet south of, east center of arch bridge 62 ; copper	
bolt (P. R. R. b. m. 36)	726.30
Milepost 35, 2,760 feet north of, northwest arch of bridge 65; copper	
bolt (P. R. R. b. m. 37)	779.99

79. 112

PAWPAW QUADRANGLE.

[Latitude 39° 30′-39° 45′; longitude 78° 15′-78° 30′.]

From point near Hancock to point near Little Orleans.

From point near Hancock to point near Little Oriegns.	
Hancock, 6 miles west of, on coping stone of Lock 53, Chesapeake & Ohio Canal; square cut (C. & G. S. b. m. IX)Hancock, 10 miles west of, cut on coping stone of Chesapeake & Ohio Canal Lock 55, at Dam 6; lettered "G.B. ☐ M., U.S.C.S., 1878" (C. &	Feet. 427. 073
G. S. b. m. G) Hancock, 12.2 miles west of, on coping stone at north end of Chesapake & Ohio Canal Lock 56; square cut (C. & G. S. b. m. X) Little Orleans, 4.8 miles east of, at south side and east end of Chesapake	443. 810 451. 616
peake & Ohio Canal Lock 57, on top of wing wall; square cut (C. & G. S. b. m. XI)	458. 134 459. 685
Little Orleans, 3 miles west of, on coping of Chesapeake & Ohio Canal Lock 58; square cut (C. & G. S. b. m. XIII)Little Orleans, 12 miles southwest of, 2 miles east of canal tunnel, on	467. 601
coping of Lock 61; cut lettered "H.B. M., U.S.C.S., 1878" (C. & G. S. b. m. H)	492. 308
[Latitude 39°-39° 15'; longitude 76° 30'-76° 45'.]	
From point near Dorsey along Baltimore & Ohio R. R. to West Baltimore.	
Dorsey, 0.2 mile east of, 400 feet southwest of milepost 13, in southwest end of northwest coping of culvert; copper bolt (B. & O. R. R.	
b. m. 27) Harwood, 0.3 mile east of, about 450 feet east of milepost 12, in middle of south coping of arch culvert; copper bolt (B. & O. R. R.	176. 778
b. m. 28)Hanover, 0.5 mile east of, opposite milepost 11, between tracks; top of vertical rail section (B. & O. R. R. b. m. 29)	83. 215 80. 853
Elk Ridge, 0.2 mile southeast of, east side of tracks, 30 feet south of milepost 10, in coping of retaining wall; copper bolt (B. & O. R. R. b. m. 30)	71. 105
Relay, at east end of viaduct bridge on south side of tracks, in center of top of stone post; copper bolt (B. & O. R. R. b. m. 31)St. Denis, 0.1 mile east of, in middle of south coping of arch culvert;	71. 715
st. Denis, 0.8 mile east of, at east end of north abutment of overhead public-road bridge, in foundation on first course of stone; copper	67. 691
bolt (B. & O. R. B. b. m. 32)Halethorpe, 0.1 mile east of, near telegraph pole 5-20, in south end	73. 896
of west wall of culvert; copper bolt (B. & O. R. R. b. m. 33)	67. 800
Winans, 780 feet south of, in east end of Baltimore & Ohio R. R. bridge; shelf cut (P. R. R. b. m. 101)	36. 767
Lansdowne, opposite milepost 4, on top of vertical rail section; cross (B. & O. R. R. b. m. 34)	68. 931
head bridge, in large coping stone of retaining wall; copper bolt	, and

(B. & O. R. R. b. m. 35)

From Relay along Baltimore & Ohio R. R. to Ilchester.

Relay, 0.5 mile east of, in northwest corner of culvert; copper bolt (B. & O. R. R. b. m. 100)	Feet.
Vineyard, in east end of south coping of bridge 10; copper bolt (B. &	66. 632
O. R. B. b. m. 101)Vineyard, near, in east end of west offset of south coping of bridge; copper bolt (B. & O. R. R. b. m. 102)	70. 972 77. 056
Orange Grove, 0.2 mile northwest of, on north side of tracks, 250 feet northwest of milepost 12, near large white-poplar tree, in	
native rock; copper bolt (B. & O. R. R. b. m. 103)	94. 988
From Arbutus along Pennsylvania R. R. to point near Arundel.	
Arbutus, 2,050 feet north of, west side of track; stone marker (P. R. R. b. m. 99)	114. 41
Halethorpe, 429 feet north of, west coping of box culvert; copper bolt (P. R. R. b. m. 100)	58. 82
Winans, 780 feet south of, on east Baltimore & Ohio R. R. bridge; shelf (P. R. R. b. m. 101)	36. 767
Patapsco, 2,407 feet north of, southeast coping; copper bolt (P. R. R. b. m. 102)	30. 19
Patapsco, southeast back wall of undergrade bridge; square (P. R. R. b. m. 103a)	33. 95
Patapsco, 5,066 feet south of, in west coping of box culvert; copper bolt (P. R. R. b. m. 104)	44. 88
Stony Run, 1,390 feet south of, in west coping of box culvert; copper bolt (P. R. R. b. m. 105)	68. 79
Harman, 4,210 feet north of, in east center coping of arch; copper bolt (P. R. B. b. m. 106)	84, 24
Harman, east side of track; stone marker (P. R. R. b. m. 107)	126.66
Severn, east side of track; stone marker (P. R. R. b. m. 108)	167. 00
Severn, 3,640 feet south of, in northeast coping of box culvert; copper bolt (P. R. B. b. m. 109)	136. 62
Severn, 5,650 feet south of, on bridge 9, in southwest coping of arch; copper bolt (P. R. R. b. m. 110)	118.72
Odenton, 2,250 feet north of, in southeast coping of box culvert; copper bolt (P. R. R. b. m. 111)	137. 12
Odenton, 150 feet north of, in southwest end parapet of box culvert; copper bolt (P. R. R. b. m. 112)	148. 93
Odenton, 3,500 feet south of, on east side of track; stone marker (P. R. B. b. m. 113)	166. 61
Patuxent, 4,070 feet north of, in northeast bridge seat of bridge 10; copper bolt (P. R. R. b. m. 114)	106.05
Patuxent, 1,700 feet north of, in southwest bridge seat of bridge 11; copper bolt (P. R. R. b. m. 115)	82. 51
stone marker (P. R. R. b. m. 116)	121. 42
ROCKVILLE QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 77°-77° 15'.]	•
From point near Linden along Baltimore & Ohio R. R. to Waring.	
Linden, 0.3 mile east of, opposite milepost marked "Washington 9 miles," between tracks; top of vertical rail section (B. & O. R. R.	
b. m. 10)	320. 165

Capitol View, 0.4 mile east of, opposite milepost 10, between tracks; top of vertical rail section (B. & O. R. R. b. m. 11)	Feet. 309. 663
Kensington, opposite milepost 11, between tracks; top of vertical rail section (B. & O. R. R. b. m. 12)	300. 703
Garrett Park, 0.4 mile east of, opposite milepost 12, between tracks;	300. 103
top of vertical rail section (B. & O. R. R. b. m. 13)	285. 524
of vertical rail section (B. & O. R. B. b. m. 14)	318. 216
Halpine, 0.7 mile east of, opposite milepost 14, between tracks; top of vertical rail section (B. & O. R. R. b. m. 15)	372. 713
Halpine, 0.3 mile west of, opposite milepost 15, between tracks; top	
of vertical rail section (B. & O. R. R. b. m. 16) Rockville, 0.5 mile east of, opposite milepost 16, between tracks; top	393. 836
of vertical rail section (B. & O. R. R. b. m. 17)	421. 685
Rockville, 0.5 mile west of, opposite milepost 17, between tracks; top of vertical rail section (B. & O. R. R. b. m. 18)	442. 277
Westmore, 0.3 mile west of, opposite milepost 18, between tracks; top	112. 211
of vertical rail section (B. & O. R. R. b. m. 19)	457. 265
Derwood, opposite milepost 19, between tracks; top of vertical rail section (B. & O. R. R. b. m. 20)	475. 563
Washington Grove, 0.7 mile east of, opposite milepost 20, between	405 150
tracks; top of vertical rail section (B. & O. R. R. b. m. 21) Gaithersburg, 0.6 mile east of, opposite milepost 21, between tracks;	497. 156
top of vertical rail section (B. & O. R. R. b. m. 22)	518.824
Ward, 0.1 mile east of, on south side of tracks, near milepost 22, top of vertical rail section (B. & O. R. B. b. m. 23)	490.668
Ward, 0.9 mile west of, south side of track near milepost 23; top of vertical rail section (B. & O. R. R. b. m. 24)	AAR 981
Clopper, 0.2 mile east of, south side of track near milepost 24; top of	446. 261
vertical rail section (B. & O. R. R. b. m. 25)	404. 372
At Great Falls.	
Great Falls, 1.65 meters from west gate of Lock 20, Chesapeake & Ohio Canal, on capstone of south wall, 0.2 meter from extreme	
north and 0.45 meter from extreme east edge; bottom of square	
cut (C. & G. S. b. m. F)	166. 592
SENECA QUADRANGLE.	
[Latitude 39°-39° 15'; longitude 77° 15'-77° 30'.]	
From Waring along Baltimore & Ohio R. R. to point near Tuscarora.	
Waring, south side of track near milepost marked "Washington 25 miles"; top of vertical rail section (B. & O. R. B. b. m. 26)	364. 414
Germantown, 0.5 mile east of, south side of tracks near milepost 26;	200 000
top of vertical rail section (B. & O. R. R. b. m. 27)Germantown, 0.5 mile west of, on south side of tracks near milepost	399. 898
27; top of vertical rail section (B. & O. R. R. b. m. 28)	442. 132
Darby, 1.5 miles west of, on south side of tracks near milepost 28; top of vertical rail section (B. & O. R. R. b. m. 29)	422. 575
Boyd, 0.1 mile east of, on south side of tracks, near milepost 29;	417 Dee
top of vertical rail section (B. & O. R. R. b. m. 30)Buck Lodge, 0.5 mile east of, south side of tracks, near milepost 30;	417. 066
top of vertical rail section (B. & O. R. R. b. m. 31)	431.852

Buck Lodge, 0.5 mile west of, south side of tracks, near milepost 31; top of vertical rail section (B. & O. R. R. b. m. 32)	Feet. 441. 610
Barnesville, 1.1 miles east of, on south side of tracks, near milepost 32; top of vertical rail section (B. & O. R. R. b. m. 33)	494. 929
Barnesville, 0.1 mile east of, south side of tracks, near milepost 33; top of vertical rail section (B. & O. R. R. b. m. 34)	508. 940
Barnesville, 0.9 mile west of, south side of tracks, near milepost 34; top of vertical rail section (B. & O. R. B. b. m. 35)	452. 827
top of vertical rail section (B. & O. R. R. b. m. 36) Dickerson, 0.3 mile west of, south side of tracks, near milepost 36;	396. 949
top of vertical rail section (B. & O. R. R. b. m. 37) Dickerson, 1.3 miles west of, 225 feet west of milepost 37, in bridge seat of culvert, on south end of east side; copper bolt (B. & O.	344. 318
R. R. b. m. 38)Tuscarora, 1.3 miles east of, south side of tracks, near milepost 38; top of vertical rail section (B. & O. R. R. b. m. 39)	284. 448 254, 848
From Seneca to Whites Ferry.	201, 010
Seneca, on southeast side of capstone on southwest end of Aqueduct Bridge, 0.165 meter from iron guard rail, 0.397 meter from extreme edge of capstone, and 0.06 meter from end of lower wooden beam of guard rail crossing the bridge; bottom of square cut (C. & G. S. b. m. E)	198. 392
Whites Ferry, about 20 meters east of bridge crossing Chesapeake & Ohio Canal, on south bank, on capstone of culvert under canal, 0.178 meter from extreme south edge of capstone; square cut (C. & G. S. b. m. V)	207. 247
WASHINGTON QUADRANGLE.	
[Latitude 38° 45'-39°; longitude 76° 45'-77° 15'.]	
From point near Silver Spring to point near Woodside.	
Silver Spring, 0.5 mile east of, opposite milepost marked "Washington 7 miles," between tracks; top of vertical rail section (B. & O.	
R. R. b. m. 8)	327. 571
vertical rail section (B. & O. R. R. b. m. 9)	323. 370
From Rives along Baltimore & Ohio R. R. to point near Branchville.	
Rives, 100 feet southwest of milepost 35, southeast side of tracks, in northeast end of coping of foundation for overhead bridge; copper bolt (B. & O. R. R. b. m. 5)	59. 734
stone, northeast abutment, bridge 34 A; copper bolt (B. & O. R. R. b. m. 6)	34.704
Alexandria Junction, opposite milepost 33, between tracks; top of vertical rail section (B. & O. R. R. b. m. 7)	49. 209
Riverdale, 600 feet north of, in west end of north wall of culvert; copper bolt (B. & O. R. R. b. m. 7 A)	51. 982
Riverdale, near, in north end of east coping of small culvert, about 400 feet north of milepost 32; copper bolt (B. & O. R. R. b. m. 8)_College Park, 0.5 mile north of, in west end of north abutment of	53. 206
bridge; copper bolt (B. & O. R. R. b. m. 9)	52. 959

Berwyn, 0.2 mile south of, in west end of bridge seat, north abutment of small bridge at telegraph pole 30-17; copper bolt (B. & O. R. R. b. m. 9 A)	Feet. 53. 037
From Bowie along Pennsylvania R. R. to District line.	•
Bowie, 1,820 feet south of, west side of track; stone marker (P. R. R. b. m. 121a)	142. 13
Springfield, east side of track; stone marker (P. R. R. b. m. 122)	167. 47 150. 45
(P. R. B. b. m. 124)Seabrook, 3,110 feet south of, northeast coping of bridge 14; copper bolt (P. R. R. b. m. 125)	150. 44 135. 66
Lanham, 1,960 feet south of, west coping of culvert; copper bolt (P. R. R. b. m. 126)	129. 79
Ardwick, 1,430 feet south of, northwest wing of bridge 15; copper bolt (P. R. R. b. m. 127)	67. 42
Landover, 170 feet north of, top step of northeast wing of bridge 17; copper bolt (P. R. R. b. m. 128)	56. 84
Magruder Avenue, bridge over Magruder Branch, east abutment, bottom step of north wing; copper bolt (P. R. R. b. m. 129)Magruder, 1,865 feet south of, northeast wing of bridge 18, at level	43. 40
of bridge seat; copper bolt (P. R. R. b. m. 130) Magruder, 4,980 feet south of (Maryland and District of Columbia boundary line), west side of track; stone monument (P. R. R.	21. 19
b. m. 130a)	48. 30
WILLIAMSPORT QUADRANGLE.	
[Latitude 39° 30'-39° 45'; longitude 77° 45'-78°.]	
From Williamsport along Chesapeake & Ohio Canal to Cherry Run.	
Williamsport, on west side of aqueduct of Chesapeake & Ohio Canal over Conococheague River, on top surface of stone; square cavity marked "BB M., U.S.C.S., 1878"	357. 750
Williamsport, 7 miles west of; cut on coping stone of Dam No. 5, Potomac River, lettered "CB M., U.S.C.S., 1878"	371. 630
Williamsport, 7.8 miles west of, on top layer of stone of second lock above Dam No. 5, in Chesapeake & Ohio Canal; square cut lettered "No.VIB□M., U.S.C.S., 1878"	371. 358
Williamsport, 9.2 miles west of, on top layer of stone at west end of sixth lock above Dam No. 5; square cut lettered "DB□M.,	
U.S.C.S., 1878"	404. 241

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 below. These elevations are approximate only and should not be used for accurate work.

Locality.	Qúadrangle.	County.	Eleva- tion.
Abingdon	Gunpowder	Harford	Feet.
Backbone Mountain, the highest point in Maryland.	Oakland	·Garrett	3,340
Boyer Knob, triangulation station Braddock Heights	Flintstone.	Allegany. Frederick.	1, 564 899
Brandywine	Brandywine Flintstone Elkton	Allegany	233 1,872 306
Black Hill	do	do	311
Dans Rock, triangulation station Darlington Davidsonville	Frostburg	Allegany Harford Anne Arundel	2,898 324 185
Denton. Druid Lake, water surface	Denton. Baltimore.	Caroline Baltimore	37 217
Eagle Rock	Oakland Hurlock	Garrett	3, 162 43
Egg Hill Elbow Ridge Eldersburg	Elkton. Hancock Ellicott.	Cecil	442 995 642
Fairview Mountain, triangulation station	Williamsport	Washington	1,700
Federalsburg. Forest Hill Fox Gap.	Hurlock Belair Antietam	Caroline	29 544 1,064
George HillGranite.	AccidentEllicott	GarrettBaltimore.	3,004 461
Grays Hill, triangulation station	ElktonEllicott	Cecil	268 695
HendersonHigh Knob.	BarclayIjamsville	Caroline Frederick	58 1,531
High Rock	HagerstownGrantsville	WashingtonGarrett	1,822 3,000
Hunting Hill	Rockville Mount Airy	Montgomery	461 688
Knobly Mountain	Frostburg	Allegany	, 1,959
Lambs Knoll	Antietam	Frederick - Washing-	1,772
Manchester	Hagerstown	Washington	595 953
Marsh Hill	Accident	Garrett Washington	3, 073 1, 468
Meadow Mountain, triangulation station Mechanicsville	Grantsville Leonardtown	Garrett	3,031 165
Middleburg	TaneytownBaltimore	Carroll	473 163
Mount Airy Mount Pleasant	Mount Airy	Carrolldo	810 816

Locality.	Quadrangle.	County.	Eleva- tion.
Nebo Mountain Nicholas Mountain	Grantsville	GarrettAllegany	Feet. 2,604 1,506
Observatory Hill	OaklandOwensville	Garrett Anne Arundel	2,767 182
Pine Rock Pleasantville Poolesville.	Antietam	Frederick Harford Montgomery	1, 125 530 400
Quirauk Mountain, triangulation station	Hagerstown	Washington	2, 145
Randallstown Ridge Hill Ridgely Ringgold Roland Lake Roundtop	HagerstownBaltimore	Baltimore. Frederick Caroline. Washington Baltimore. Washington	585 1,260 67 769 225 1,388
St. John Rock	Frostburgdo Laurel Flintstone Pawpaw Taneytown Flintstone Ijamsville.	Garrettdo Howard Allegany Washington Carroll Allegany Frederick	2,930 2,942 153 1,522 1,635 707 831 1,281
TimoniumTruesdall Heights	Baltimore	Baltimore	392 2,809
Uniontown		Carroll Prince Georges	659 39
Warrior Mountain. West Elkridge. Winding Ridge. Wolf Rock	Relay	Howard	2,135 228 2,866 2,796

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