

DESCRIPTION OF THE TOPOGRAPHIC MAP OF THE UNITED STATES

being represented, as shown on the progress maps | broken horizontal lines.

of convenient size, which are bounded by parallels the same altitude. One who follows a contour on and weights. Cities are indicated by black blocks, and meridians. The four-cornered division of the ground will go neither uphill nor downhill, representing the built-up portions, and country land corresponding to an atlas sheet is called a but on a level. By the use of contours not only houses by small black squares. Roads are shown quadrangle. The sheets are of approximately the are the shapes of the plains, hills, and mountains by fine double lines (full for the better roads, dotsame size: the paper dimensions are 20 by 16½ shown, but also the elevations. The line of the ted for the inferior ones), trails by single dotted inches; the map occupies about 17½ inches of seacoast itself is a contour line, the datum or zero lines, and railroads by full black lines with cross height and 11½ to 16 inches of width, the latter of elevation being mean sea level. The contour lines. Other cultural features are represented by varying with latitude. Three scales, however, are line at, say, 20 feet above sea level is the line that conventions which are easily understood. employed. The largest scale is 1:62500, or very would be the seacoast if the sea were to rise or the The sheets composing the topographic atlas are nearly one mile to one inch; i. e., one linear mile land to sink 20 feet. Such a line runs back up designated by the name of a principal town or of on the ground is represented by one linear inch on the valleys and forward around the points of hills some prominent natural feature within the district, the map. This scale is used for the thickly settled and spurs. On a gentle slope this contour line is and the names of adjoining published sheets are or industrially important parts of the country. far from the present coast line, while on a steep printed on the margins. The sheets are sold at For the greater part of the country an intermediate | slope it is near it. Thus a succession of these con- | five cents each when fewer than 100 copies are purscale of 1:125000, or about two miles to one inch, tour lines far apart on the map indicates a gentle chased, but when they are ordered in lots of 100 is employed. A third and still smaller scale of slope; if close together, a steep slope; and if the or more copies, whether of the same sheet or of 1:250000, or about four miles to one inch, has contours run together in one line, as if each were different sheets, the price is three cents each. been used in the desert regions of the far West. vertically under the one above it, they indicate a The topographic map is the base on which the A few special maps on larger scales are made of cliff. In many parts of the country are depressions facts of geology and the mineral resources of a limited areas in mining districts. The sheets on or hollows with no outlets. The contours of course quadrangle are represented. The topographic and the largest scale cover 15' of latitude by 15' of surround these, just as they surround hills. Those geologic maps of a quadrangle are finally bound longitude; those on the intermediate scale, 30' of small hollows known as sinks are usually indicated together, accompanied by a description of the dislatitude by 30' of longitude; and those on the by hachures, or short dashes, on the inside of the trict, to form a folio of the Geologic Atlas of the

venience, be classed in three groups: (1) water, stated at the bottom of each map. This interval hensive, which are priced accordingly. including seas, lakes, ponds, rivers and other varies according to the character of the area. Applications for the separate topographic maps tions appear in some maps of earlier dates.

The United States Geological Survey is making | times, are shown, not by full lines, but by lines of | their descriptions, as well as the descriptions and a topographic map of the United States. This dots and dashes. Ponds which are dry during a geodetic coordinates of triangulation stations, are work has been in progress since 1882, and about part of the year are shown by oblique parallel published in the annual reports and bulletins of three-tenths of the area of the country, excluding lines. Salt-water marshes are shown by horizontal the Survey. The publications pertaining to specioutlying possessions, has been mapped. The map- ruling interspersed with tufts of blue, and fresh- fied localities may be had on application. ped areas are widely scattered, nearly every State water marshes and swamps by blue tufts with The works of man are shown in black, in which

smallest scale, 1° of latitude by 1° of longitude. curve. The contour interval, or the vertical dis- United States. The folios are sold at twenty-five The features shown on this map may, for con- tance in feet between one contour and the next, is cents each, except such as are unusually comprerailroads, boundaries, etc. The conventional signs accompanied by figures stating elevation above sea toused for these features are grouped below. Varia- level. The heights of many definite points, such as road corners, railroad crossings, railroad stations, All water features are shown in blue, the smaller summits, water surfaces, triangulation stations, and streams and canals in full blue lines, and the larger | bench marks, are also given. The figures in each | streams, lakes, and the sea by blue water-lining. case are placed close to the point to which they Certain streams, however, which flow during only apply, and express the elevation to the nearest foot a part of the year, their beds being dry at other only. The exact elevations of bench marks and

color all lettering also is printed. Boundaries, accompanying each annual report of the Director. Relief is shown by contour lines in brown. such as State, county, city, land-grant, reservation, This great map is being published in atlas sheets | Each contour passes through points which have- etc., are shown by broken lines of different kinds

streams, canals, swamps, etc.; (2) relief, including mapped; in a flat country it may be as small as 10 or for folios of the Geologic Atlas should be mountains, hills, valleys, cliffs, etc.; (3) culture, feet; in a mountainous region it may be 200 feet. accompanied by the cash or by post-office money i. e., works of man, such as towns, cities, roads, Certain contours, usually every fifth one, are order (not postage stamps), and should be addressed

THE DIRECTOR.

United States Geological Survey,

Washington, D. C.

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CONVENTIONAL SIGNS

CULTURE (printed in black)

