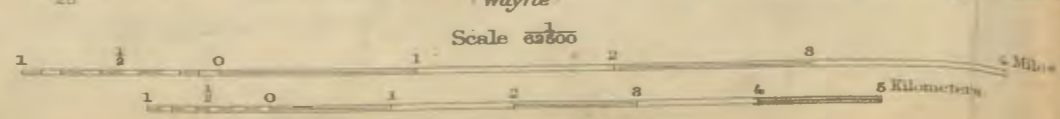




REGIONAL MAP



H. M. Wilson, Geographer in charge.  
Control by U.S. Coast and Geodetic Survey and T. T. Craven  
Topography by W. N. Morrill.  
Surveyed in 1901 in cooperation with the States of  
West Virginia and Ohio.

Edition of Oct 1902, reprinted 1923.  
Polyconic projection, North American datum.

GUYANDOT, WVA-O.

# THE TOPOGRAPHIC MAPS OF THE UNITED STATES

8.1.2  
83.4  
84.1

The United States Geological Survey is making a standard topographic atlas of the United States. This work has been in progress since 1882, and its results consist of published maps of more than 40 per cent of the country, exclusive of outlying possessions.

This topographic atlas is published in the form of maps on sheets measuring about 16 1/4 by 20 inches. Under the general plan adopted the country is divided into quadrangles bounded by parallels of latitude and meridians of longitude. These quadrangles are mapped on different scales, the scale selected for each map being that which is best adapted to general use in the development of the country, and consequently, though the standard maps are of nearly uniform size, they represent areas of different sizes. On the lower margin of each map are printed graphic scales showing distances in feet, meters, and miles. In addition, the scale of the map is shown by a fraction expressing a fixed ratio between linear measurements on the map and corresponding distances on the ground. For example, the scale  $\frac{1}{25,000}$  means that 1 unit on the map (such as 1 inch, 1 foot, or 1 meter) represents 25,000 similar units on the earth's surface.

Although some areas are surveyed and some maps are compiled and published on special scales for special purposes, the standard topographic surveys for the United States proper and the resulting maps have for many years been divided into three types, differentiated as follows:

1. Surveys of areas in which there are problems of great public importance—relating, for example, to mineral development, irrigation, or reclamation of swamp areas—are made with sufficient accuracy to be used in the publication of maps on a scale of  $\frac{1}{62,500}$  (1 inch = one-half mile), with a contour interval of 1, 5, or 10 feet.

2. Surveys of areas in which there are problems of average public importance, such as most of the basin of the Mississippi and its tributaries, are made with sufficient accuracy to be used in the publication of maps on a scale of  $\frac{1}{125,000}$  (1 inch = nearly 1 mile), with a contour interval of 10 to 25 feet.

3. Surveys of areas in which the problems are of minor public importance, such as much of the mountain or desert region of Arizona or New Mexico, are made with sufficient accuracy to be used in the publication of maps on a scale of  $\frac{1}{250,000}$  (1 inch = nearly 2 miles), with a contour interval of 25 to 100 feet.

A topographic survey of Alaska has been in progress since 1898, and nearly 37 per cent of its area has now been mapped. About 10 per cent of the Territory has been covered by reconnaissance maps on a scale of  $\frac{1}{250,000}$ , or about 10 miles to an inch. Most of the remaining area surveyed in Alaska has been mapped on a scale of  $\frac{1}{500,000}$ , but about 4,000 square miles has been mapped on a scale of  $\frac{1}{62,500}$ .

About half of the Hawaiian Islands has been surveyed, and the resulting maps are published on a scale of  $\frac{1}{62,500}$ .

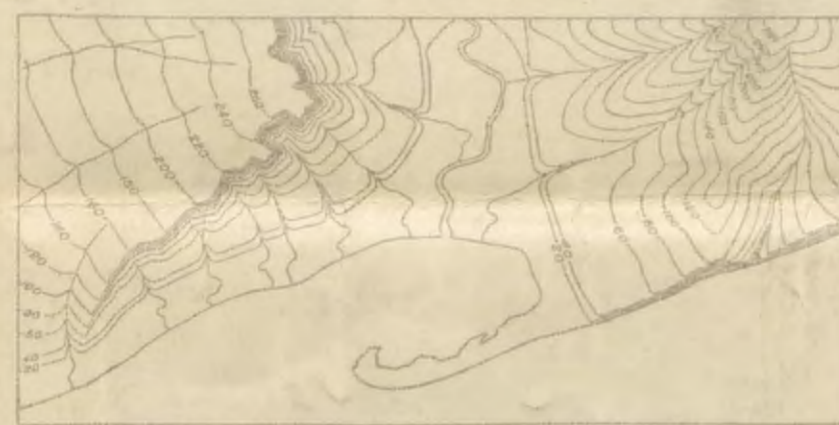
The features shown on these maps may be arranged in three groups—(1) water, including seas, lakes, rivers, canals, swamps, and other bodies of water; (2) relief, including mountains, hills, valleys, and other features of the land surface; (3) culture (works of man), such as towns, cities, roads, railroads, and

boundaries. The conventional signs used to represent these features are shown and explained below. Variations appear on some earlier maps, and additional features are represented on some special maps.

All the water features are represented in blue, the smaller streams and canals by single blue lines and the larger streams, the lakes, and the sea by blue water lining or blue tint. Intermittent streams—those whose beds are dry for a large part of the year—are shown by lines of blue dots and dashes.

Relief is shown by contour lines in brown, which on some maps are supplemented by shading showing the effect of light thrown from the northwest across the area represented, for the purpose of giving the appearance of relief and thus aiding in the interpretation of the contour lines. A contour line represents an imaginary line on the ground (a contour) every part of which is at the same altitude above sea level. Such a line could be drawn at any altitude, but in practice only the contours at certain regular intervals of altitude are shown. The line of the seacoast itself is a contour, the datum or zero of altitude being mean sea level. The 20-foot contour would be the shore line if the sea should rise 20 feet. Contour lines show the shape of the hills, mountains, and valleys, as well as their altitude. Successive contour lines that are far apart on the map indicate a gentle slope; lines that are close together indicate a steep slope; and lines that run together indicate a cliff.

The manner in which contour lines express altitude, form, and grade is shown in the figure below.



The sketch represents a river valley that lies between two hills. In the foreground is the sea, with a bay that is partly inclosed by a hooked sand bar. On each side of the valley is a terrace into which small streams have cut narrow gullies. The hill on the right has a rounded summit and gently sloping spurs separated by ravines. The spurs are truncated at

their lower ends by a sea cliff. The hill at the left terminates abruptly at the valley in a steep scarp, from which it slopes gradually away and forms an inclined table-land that is traversed by a few shallow gullies. On the map each of these features is represented, directly beneath its position in the sketch, by contour lines.

The contour interval, or the vertical distance in feet between one contour and the next, is stated at the bottom of each map. This interval differs according to the topography of the area mapped: in a flat country it may be as small as 1 foot; in a mountainous region it may be as great as 250 feet. Certain contour lines, every fourth or fifth one, are made heavier than the others and are accompanied by figures showing altitude. The heights of many points—such as road corners, summits, surfaces of lakes, and bench marks—are also given on the map in figures, which show altitudes to the nearest foot only. More exact altitudes—those of bench marks—as well as the geodetic coordinates of triangulation stations, are published in bulletins issued by the Geological Survey.

Lettering and the works of man are shown in black. Boundaries, such as those of a State, county, city, land grant, township, or reservation, are shown by continuous or broken lines of different kinds and weights. Metaled roads are shown by double lines, one of which is accentuated. Other public roads are shown by fine double lines, private and poor roads by dashed double lines, trails by dashed single lines.

Each quadrangle is designated by the name of a city, town, or prominent natural feature within it, and on the margins of the map are printed the names of adjoining quadrangles of which maps have been published. Over 3,000 quadrangles in the United States have been surveyed, and maps of them similar to the one on the other side of this sheet have been published.

The topographic map is the base on which the geology and mineral resources of a quadrangle are represented, and the maps showing these features are bound together with a descriptive text to form a folio of the Geologic Atlas of the United States. More than 200 folios have been published.

Index maps of each State and of Alaska and Hawaii showing the areas covered by topographic maps and geologic folios published by the United States Geological Survey may be obtained free. Copies of the standard topographic maps may be obtained for 10 cents each; some special maps are sold at different prices. A discount of 40 per cent is allowed on an order for maps amounting to \$5 or more at the retail price. The geologic folios are sold for 25 cents or more each, the price depending on the size of the folio. A circular describing the folios will be sent on request.

Applications for maps or folios should be accompanied by cash, draft, or money order (not postage stamps) and should be addressed to

THE DIRECTOR,  
United States Geological Survey,  
Washington, D. C.

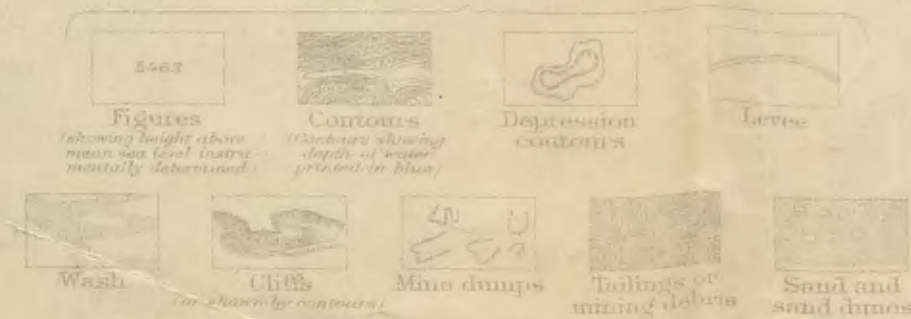
January, 1924.

## CONVENTIONAL SIGNS

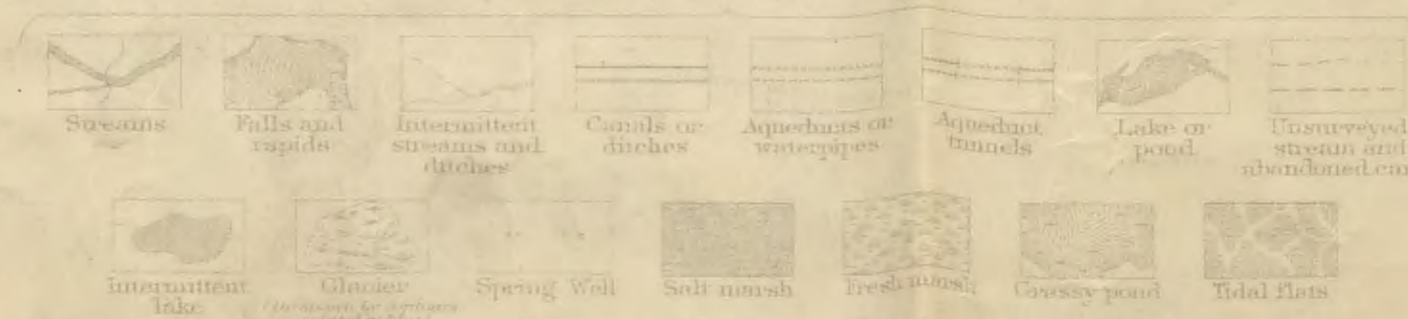
### CULTURE (printed in black)



### RELIEF (printed in brown)

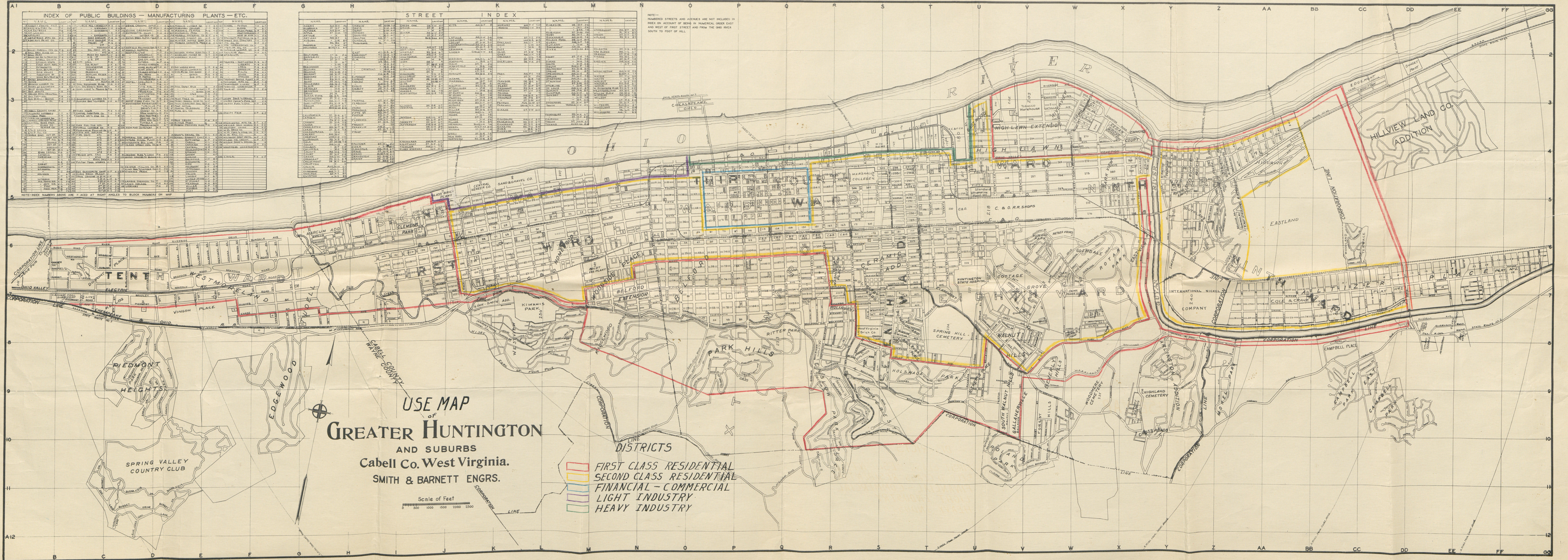


### WATER (printed in blue)



### WOODS (when shown, printed in green)





**INDEX OF PUBLIC BUILDINGS - MANUFACTURING PLANTS - ETC.**

NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...

**STREET INDEX**

NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...
ALABAMA	...	ALABAMA	...	ALABAMA	...	ALABAMA	...

NOTE - NUMBERED STREETS AND AVENUES ARE NOT INCLUDED IN INDEX ON ACCOUNT OF BEING IN NUMERICAL ORDER EAST AND WEST OF FIRST STREET AND FROM THE OHIO RIVER SOUTH TO FOOT OF HILL.

**USE MAP of GREATER HUNTINGTON AND SUBURBS**  
 Cabell Co. West Virginia.  
 SMITH & BARNETT ENGRS.

Scale of Feet  
 0 500 1000 1500 2000 2500

- DISTRICTS**
- █ FIRST CLASS RESIDENTIAL
  - █ SECOND CLASS RESIDENTIAL
  - █ FINANCIAL - COMMERCIAL
  - █ LIGHT INDUSTRY
  - █ HEAVY INDUSTRY

