



Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Bethesda, MD

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LEGEND

CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.

A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE. IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.

THERE MAY BE PRIVATE INHOLDINGS WITHIN THE BOUNDARIES OF THE NATIONAL OR STATE RESERVATIONS SHOWN ON THIS MAP.

ROADS

- Divided highway with median strip
- Primary, all weather, hard surface
- Secondary, all weather, hard surface
- Light duty, all weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Route markers: Interstate, Federal, State
- Bridge
- RAILROADS (Standard gauge 1.44m - 4'8 1/2")
- Single track
- Multiple track
- Nonoperating
- Railroad station: Location known, Location unknown
- Car line
- Railroad bridge
- Tunnel: Highway, Railroad

BOUNDARIES

- National, with monument
- State, territory
- County, parish
- City, township, town
- Incorporated city, village, town
- Reservation: National, State, Military

Other symbols: Buildings, Churches, Schools, Power substation, Windmill, Watermill, Well, Tank, Mine shaft, Open pit mine or quarry, Horizontal control station, Bench mark, monumented, Spot elevation in meters, Levies, dikes, dikes, Bluffs, cliffs, Woodland, Scattered trees, Scrub, Vineyard, Orchard, plantation, Intermittent lake: Dam, Earthen, Masonry, Swamp, Periodic, Intermittent, Marsh, swampy, Small falls, Large falls, Small rapids, Large rapids.

CONVERSION GRAPH

(1 meter = 3.28 feet)

Meters	Feet
0	0
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952
1000	3280

ELEVATIONS IN METERS

CONTOUR INTERVAL 20 METERS

ELLIPSOID: GEODETIC REFERENCE SYSTEM 1980
GRID: 1,000-METER UTM ZONE 17 (BLACK NUMBERED LINES)
5,000-METER STATE GRID TICKS, WEST VIRGINIA (NORTH ZONE)
PENNSYLVANIA (SOUTH ZONE)

PROJECTION: TRANSVERSE MERCATOR
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
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SAMPLE 1,000 METER GRID SQUARE

100 METER REFERENCE

1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenth (100 meters) from grid line to point 12.3

2. Read large numbers labeling the HORIZONTAL grid line above point and estimate tenths (100 meters) from grid line to point 45.6

Example: 123456

WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES.

Example: N0123456

WHEN REPORTING ACROSS THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.

Example: 17SN0123456

BOUNDARIES

ADJOINING SHEETS

4963 I	4963 II	4963 III
4963 IV	4963 V	4963 VI
4963 VII	4963 VIII	4963 IX

THIS MAP IS RED-LIGHT READABLE

SLOPE GUIDE

PERCENTAGE DEGREE

Percentage	Degree
10%	5.7°
20%	11.3°
30%	16.7°
40%	22.6°
50%	28.6°
60%	34.7°
70%	40.9°
80%	47.3°
90%	53.7°
100%	60.0°

ELEVATION GUIDE

High 100 Medium 50 Low 0