



USGS Library Reston, VA. Topo Archive

Prepared and published by the National Geospatial-Intelligence Agency
MAP INFORMATION AS OF 2002

LEGEND

POPULATED PLACES
 Densely built-up areas
 Sparsely to moderately built-up areas

ROADS
 All weather, hard surface
 Two or more lanes wide
 One lane wide
 Fair or dry weather, loose surface
 Two or more lanes wide
 One lane wide
 Track: Trail
 Route markers: Interstate
 National, Secondary
 Electrified
BOUNDARIES
 International
 First-order
 Second-order
MISCELLANEOUS CULTURAL FEATURES
 Building: Ruler, School
 Church
 Cemetery
 Hospital, Helipad
 Column, Tank, Located object
 Well, Landmark area
 Airfield/Runway, Dam
 Mine: Active, Abandoned
 Bridge, Pedestrian bridge

OBSTRUCTIONS (46m or higher)
 Elevation of obstruction top above sea level
 Elevation of obstruction top above ground level
 High tension powerlines
 Ordinary powerlines

DRAINAGE
 Stream: Less than 25m wide
 25m wide or more
 Ditch: Less than 25m wide
 Well
 Lake/pond
 Swamp: Land subject to natural inundation
 Stream: Disappearing/Disappearing
MISCELLANEOUS RELIEF
 Spot elevation: Highest, Normal
 Depression
 Escarpment
 Levee
 Supplementary contour
 Sand, Gravel
 Disturbed surface
VEGETATION
 Scrub: Orchard
 Scattered trees
 Area name

NOTES
 A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8 FEET) WIDE.
 ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.
 CAUTION: NOT ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE SHOWN.
 NORTH AMERICAN DATUM 1983 (NAD 83) AND WORLD GEODETIC SYSTEM 1984 (WGS 84) ARE EQUIVALENT FOR MAPPING, CHARTING, AND NAVIGATION AT THIS SCALE.

CONVERSION GRAPH
 1 meter = 3.28 feet

Meters	Feet	Meters	Feet
400	1300	700	2200
300	900	600	1900
200	600	500	1600
100	300	400	1300
0	0	300	1000
		200	600
		100	300
		0	0

ELEVATIONS IN METERS

CONTOUR INTERVAL 20 METERS
 SUPPLEMENTARY CONTOURS 10 METERS

ELLIPSOID WORLD GEODETIC SYSTEM 1984
GRID 1,000-METER UTM ZONE 11 (BLACK-NUMBERED LINES)
PROJECTION 5,000-METER STATE GRID TICS, CALIFORNIA ZONE II
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM NORTH AMERICAN DATUM 1983/WORLD GEODETIC SYSTEM 1984
 PRINTED BY NGA 10-04

SAMPLE 1,000-METER GRID SQUARE
 46
 12
 13
 45

100-METER REFERENCE
 1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. Example: 12.3
 2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. Example: 45.5
 Example: 123456

WHEN REPORTING ACROSS A 100.00-METER LINE, PREFER THE 100.00-METER SQUARE IDENTIFICATION IN WHICH THE POINT IS.
 Example: PS 123456

WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION.
 Example: 11PS 123456

GRID CONVERGENCE 0°52' (15.14 MILS) FOR CENTER OF SHEET

GRID NORTH
MAGNETIC NORTH
 2000 G-M ANGLE 12° (270 MILS)

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH
 ADD G-M ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH
 SUBTRACT G-M ANGLE

BOUNDARIES

ADJOINING SHEETS

2950 I	2950 IV	2950 I
2950 II	2950 II	2950 II
2949 I	2949 IV	2949 I

SLOPE GUIDE

PERCENTAGE	DEGREE
1%	5.7°
2%	11.3°
3%	17.0°
4%	22.6°
5%	28.2°
6%	33.7°
7%	39.3°
8%	44.8°
9%	50.4°
10%	56.0°
11%	61.5°
12%	67.1°
13%	72.6°
14%	78.2°
15%	83.7°
16%	89.3°
17%	94.8°
18%	100.4°
19%	105.9°
20%	111.5°

ELEVATION GUIDE

High
 Medium
 Low