

Prepared by the U.S. Geological Survey for Publication by the National Imagery and Mapping Agency

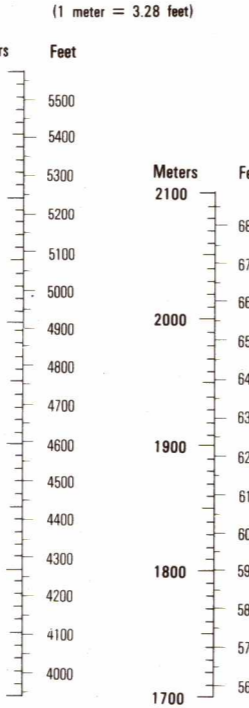
MAP INFORMATION AS OF 1997

- LEGEND**
- POPULATED PLACES:
 - Densely built-up areas
 - Sparingly to moderately built-up areas
 - ROADS:
 - Divided highway
 - All weather, hard surface
 - Two or more lanes wide
 - One lane wide
 - All weather, loose or light surface
 - Two or more lanes wide
 - One lane wide
 - ROADS:
 - Normal gauge 144m (48')
 - Narrow gauge 931m
 - Electrified
 - BRIDGES:
 - Standard
 - Culvert
 - MISCELLANEOUS CULTURAL FEATURES:
 - Church
 - Cemetery
 - Building: School: Hospital
 - Located object: Tank: Well
 - Mine: Active: Abandoned
 - Area name: Apache
 - OBSTRUCTIONS:
 - Elevation of obstruction top above sea level: 200
 - Elevation of obstruction top above ground level: 1000
 - High tension power line; communication tower
 - BOUNDARIES:
 - International
 - First-order administrative division
 - RELIEF:
 - Buff: cliff, escarpment
 - Depression
 - Levee: Sand
 - Spot elevations: Normal: +2025; +1599
 - DRAINAGE:
 - Streams: Less than 25m wide; Over 25m wide
 - Lake/pond
 - Spring
 - Well
 - Ditches: Less than 25m wide; Over 25m wide
 - Tank
 - Dispersing stream
 - Land subject to inundation
 - VEGETATION:
 - Woodland
 - Scrub: Scattered trees
 - Orchard: Vineyard

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



ELEVATIONS IN METERS
CONTOUR INTERVAL 40 METERS

ELLIPSOID: WORLD GEODETIC SYSTEM 1984
GRID: 1,000-METER UTM ZONE 12 (BLACK NUMBERED LINES); 5,000-METER STATE GRID TICKS (ARIZONA (EAST ZONE)); 5,000-METER STATE GRID TICKS (NEW MEXICO (WEST ZONE))

PROJECTION: TRANSVERSE MERCATOR
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983
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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. 12.3

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

Example: 123456

100,000 M. SQUARE IDENTIFICATION: XA 100 XV

GRID ZONE DESIGNATION: 12R

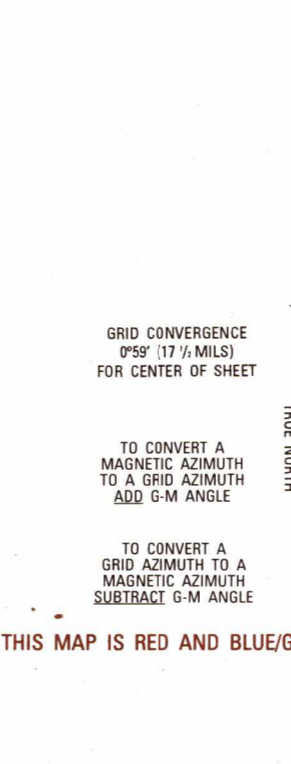
WHEN REPORTING ACROSS A 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES: Example: 12R456

WHEN REPORTING OUTSIDE THE GRID ZONE IDENTIFICATION AREA, PREFIX THE GRID ZONE DESIGNATION: Example: 12R456

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NIMA CUSTOMER HELP DESK: 1-800-455-0889. COMMERCIAL: 1-314-266-5032, DSN 496-5032, OR WRITE TO: ATTN: CDD, MAIL STOP P-37, NATIONAL IMAGERY AND MAPPING AGENCY, 4800 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

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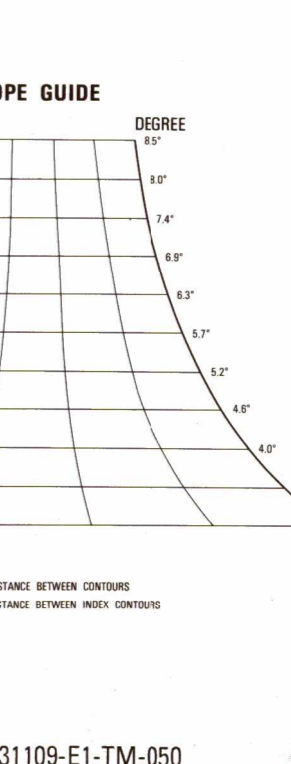
BOUNDARIES



ADJOINING SHEETS

ARIZONA	4147 IV	4147 I	4247 IV
COCHISE COUNTY	4147 III	4147 II	4247 III
NEW MEXICO	4148 IV	4148 I	4248 IV
SONORA	4148 III	4148 II	4248 III
MEXICO	4149 IV	4149 I	4249 IV
CHIHUAHUA	4149 III	4149 II	4249 III

SLOPE GUIDE



ELEVATION GUIDE

