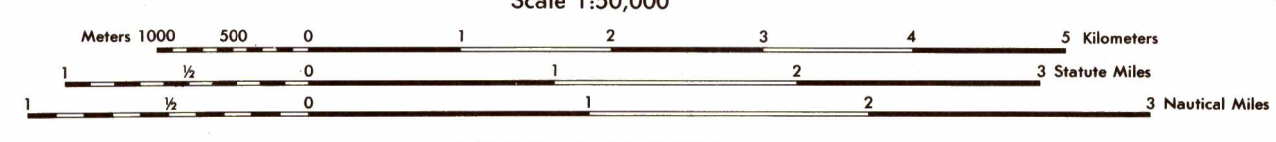


LEGEND
ROAD DATA 1958

- Hard surface, heavy duty road, four or more lanes wide
- Hard surface, heavy duty road: two lanes wide; three lanes wide
- Hard surface, medium duty road, four or more lanes wide
- Hard surface, medium duty road: two lanes wide; three lanes wide
- Buildings
- RAILROADS
- Narrow gauge
- Spot elevations in meters: Checked; Unchecked
- Light, lighthouse; Windmill, windpump
- Woods or brushwood
- Scrub or Orchard
- Intermittent lake
- Intermittent stream; Dam
- Marsh or swamp
- Rapids; Falls
- Large rapids; Large falls



ELEVATIONS IN METERS
CONTOUR INTERVAL 20 METERS
VERTICAL DATUM: SEA LEVEL; DATUM: 1929
TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM
BLACK NUMBERED LINES INDICATE THE 1,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 12
GRID DECLINATION FROM TRUE NORTH AT CENTER OF SHEET FOR UTM GRID, ZONE 12, IS 0°12' (OR 4 MILS) TO THE EAST

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NMA CUSTOMER HELP DESK: 1-800-455-0898; COMMERCIAL: 314-280-5032; CON: 480-5032; OR WRITE TO: DIRECTOR, NATIONAL MAPS AND MAPPING AGENCY, ATTN: CDD, MAIL STOP P-37, 4000 SANDHAMM ROAD, BETHESDA, MD 20815-5033

GRID ZONE DESIGNATION: 12R

TO GIVE A STANDARD REFERENCE TO THIS SHEET TO NEAREST 100 METERS

SAMPLE POINT: PASTURE UNDESIGNED

1. Read notes identifying 100,000 meter square in which the point lies.
2. Locate the VERTICAL grid line to LEFT of point and read LARGE figures labeling the line either in the top or bottom margin, or on the line itself.
3. Estimate tenths from grid line to point.
4. Locate the HORIZONTAL grid line BELOW point and read LARGE figures labeling the line either in the left or right margin, or on the line itself.
5. Estimate tenths from grid line to point.

SAMPLE REFERENCE: WL41287
If reporting beyond 10° in any direction, prefix Grid Zone Designation, ex: 12R/WL41287

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

PREDICTED G-M ANGLE

| YEAR | DEGREES | MINUTES | MILS |
|------|---------|---------|------|
| 1989 | 12°24' | 22.6 | 2.26 |
| 1990 | 12°24' | 22.8 | 2.28 |
| 1991 | 12°23' | 22.5 | 2.25 |
| 1992 | 12°23' | 22.3 | 2.23 |
| 1993 | 12°23' | 22.3 | 2.23 |
| 1994 | 12°22' | 22.2 | 2.22 |
| 1995 | 12°22' | 22.1 | 2.21 |
| 1996 | 12°22' | 22.0 | 2.20 |
| 1997 | 12°22' | 21.9 | 2.19 |
| 1998 | 12°21' | 21.8 | 2.18 |

INDEX TO ADJOINING SHEETS

| | | |
|----------|---------|----------|
| 3846 III | 3846 II | 3846 I |
| 3847 IV | 3847 I | 3847 IV |
| 3847 III | 3847 II | 3847 III |

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092
METRIC CONVERSION OF CONTOURS AND ELEVATIONS 1979
THIS MAP IS RED-LIGHT READABLE

EMPIRE MOUNTAINS, ARIZONA
PIMA COUNTY

NSN 7643014044781
NIMA REF. NO. V798X38471
ED. NO. 003