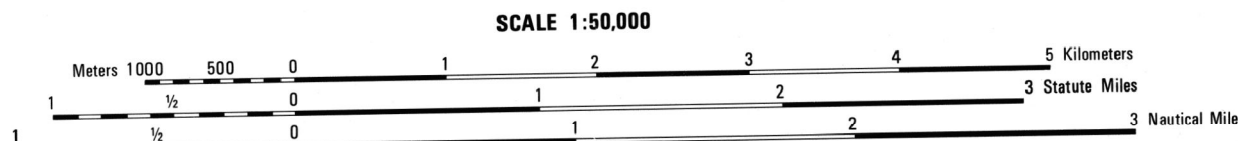
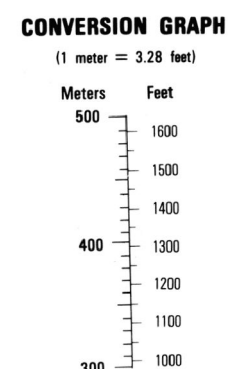


Prepared by the U. S. Geological Survey for publication by the Defense Mapping Agency Hydrographic Topographic Center, Washington, D. C.
 MAP INFORMATION AS OF 1981.
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LEGEND
 CAUTION: ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE NOT SHOWN.
 A LANE ON THIS MAP IS CONSIDERED TO BE 2.5 METERS WIDE

- 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
- Road 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
- Power transmission line
- Buildings
- Structures
- Church, School
- Power substation
- Windmill, Watermill
- Well, Tank
- Mine shaft
- Open pit mine or quarry
- Horizontal control station
- Bench mark, monument
- Bench mark, non-monumented
- Spot elevations in meters
- Lowest, vint, dikes
- Bluffs, cliffs
- Woodland
- Scattered trees, Scrub
- Vineyard, Orchard, plantation
- Intermittent Lake: Open, Earthed, Masonry
- Sewage, Perennial, Intermittent
- Marsh, swampy
- Small falls, Large falls
- Small rapids, Large rapids



ELEVATIONS IN METERS
CONTOUR INTERVAL 10 METERS

SPHEROID: CLARKE 1866
 GRID: 1,000-METER UTM ZONE 14 (BLACK NUMBERED LINES)
 10,000-FOOT STATE GRID TICKS, KANSAS (NORTH ZONE)
 PROJECTION: TRANSVERSE MERCATOR
 VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929
 HORIZONTAL DATUM: 1927 NORTH AMERICAN DATUM
 CONTROL BY: USGS AND NOS/NOAA
 PREPARED BY: U. S. GEOLOGICAL SURVEY

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
 OR RESTON, VIRGINIA 22092

SAMPLE 1,000 METER GRID SQUARE		100 METER REFERENCE	
45	12	1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. 12.3	WHEN REPORTING ACROSS A 100,000 METER LINE, PREFIX THE 100,000 METER SQUARE IDENTIFICATION IN WHICH THE POINT LIES. Example: PU123456
12	13	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 PU		WHEN REPORTING OUTSIDE THE GRID ZONE DESIGNATION AREA, PREFIX THE GRID ZONE DESIGNATION. Example: 14SPU123456	
GRID ZONE DESIGNATION 14S			

USERS SHOULD REFER TO CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0099; COMMERCIAL: 314-263-4864; DSN 683-4864 OR WRITE TO: DIRECTOR, NATIONAL GEOGRAPHIC INTELLIGENCE AGENCY, ATTN: 1-5, MAIL STOP 1-58, 4600 SANGAMORE ROAD, BETHESDA, MD 20810-5003.

THIS MAP IS RED-LIGHT READABLE

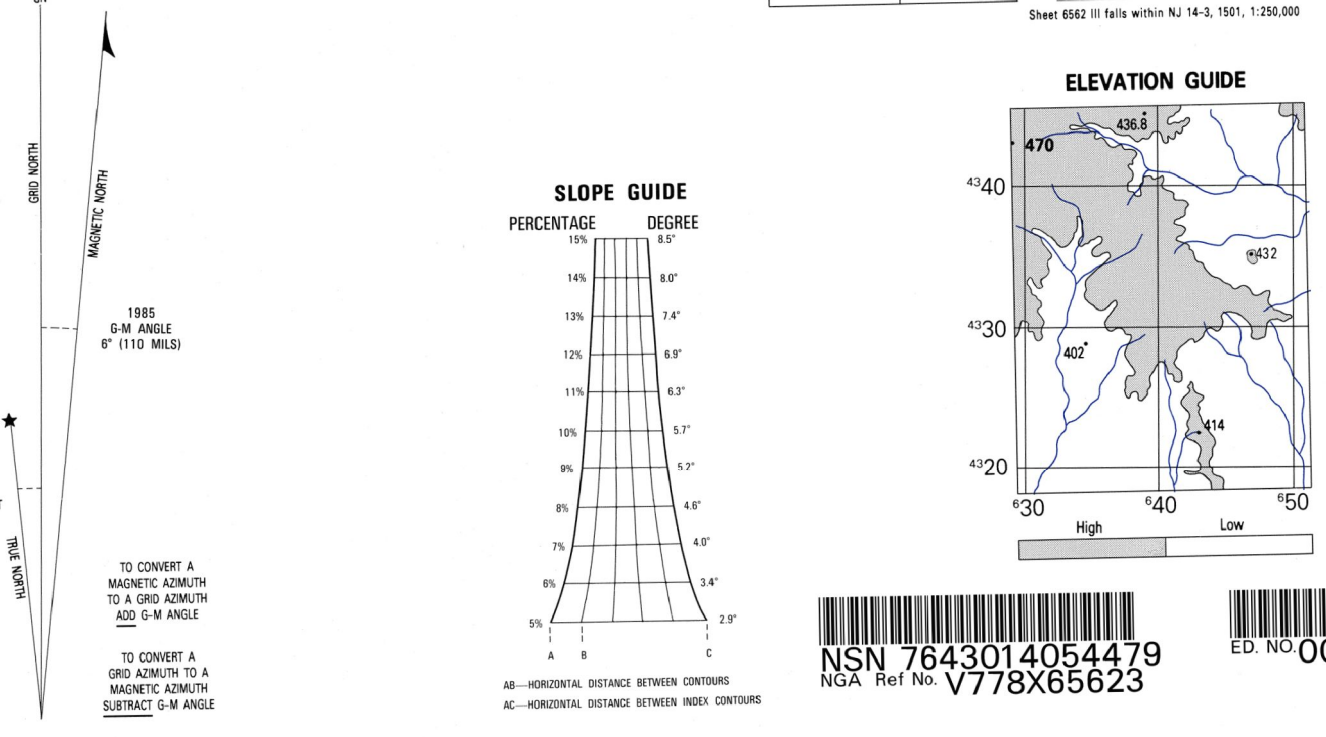
BOUNDARIES

Ottawa County	City County	Dickinson County
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ADJOINING SHEETS

6462 I	6562 IV	6562 I
6462 II	6562 III	6562 II
6462 III	6562 I	6562 III

Sheet 6562 III falls within NJ 14-0, 1951, 1:250,000



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