INDIANA 1:50,000

NORTH MADISON

EDITION 1–NIMA SERIES V751 SHEET 3961 IV

One second of longitude equals 24.06m

135 000 METERS

415 000 METERS

One second of latitude equals 30.84m

One second of longitude equals 24.15m

390 000 METERS

115 000 METERS

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

MAP INFORMATION AS OF 1998

LEGEND

POPULATED PLACES
- Densely built-up areas
- Sparsely 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
- Fair or dry weather, loose surface; Track; Trail
- Route markers: Interstate; National; Secondary

RAILROADS (Single Track / Double Track)
- Normal gauge 1.44m (4'8½")
- Narrow gauge 0.91m (3')
- Electrified

BRIDGES
- Pedestrian
- Standard
- Culvert

MISCELLANEOUS CULTURAL FEATURES
- Church
- Cemetery
- Building; School; Hospital
- Located object; Tank; Well
- Mine: Active; Abandoned
- Area name: Rexville

OBSTRUCTIONS (Single / Group)
- Elevation of obstruction top above sea level: 200
- Elevation of obstruction top above ground level: (100)
- High tension power line; communication tower

BOUNDARIES
- International
- First-order administrative division

RELIEF
- Bluff, cliff, escarpment
- Depression
- Levee; Sand: Levee
- Spot elevations: Highest; Normal: *308 *134

DRAINAGE (Perennial / Intermittent)
- Streams: Less than 25m wide; Over 25m wide
- Lake/pond
- Spring
- Well
- Ditches: Less than 25m wide; Over 25m wide
- Tank
- Dissipating stream
- Land subject to inundation

VEGETATION
- Woodland
- Scrub; Scattered trees
- Orchard; Swamp

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.

KENTUCKY STATE LINE 2.9 km
BEDFORD, KY 22 km

Scale 1:50,000

Meters 1000 500 0 1 2 3 4 5 Kilometers
1 ½ 0 1 2 3 Statute Miles
1 ½ 0 1 2 3 Nautical Miles

ELEVATIONS IN METERS

CONTOUR INTERVAL 10 METERS

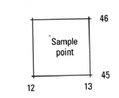
ELLIPSOID.....WORLD GEODETIC SYSTEM 1984
GRID.....1,000-METER UTM ZONE 16 (BLACK NUMBERED LINES)
5,000-METER STATE GRID TICKS, INDIANA (EAST ZONE)
PROJECTION.....TRANSVERSE MERCATOR
VERTICAL DATUM.....NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM..NORTH AMERICAN DATUM 1983/WORLD GEODETIC SYSTEM 1984
PREPARED BY.....U.S. GEOLOGICAL SURVEY
PRINTED BY.....NIMA 3-01

CONVERSION GRAPH

(1 meter = 3.28 feet)

Meters	Feet
500	1600
	1500
400	1400
	1300
	1200
	1100
300	1000
	900
	800
	700
200	600
	500
	400
100	

SAMPLE 1,000 METER GRID SQUARE



100,000 M. SQUARE IDENTIFICATION
FJ
FH
*00

GRID ZONE DESIGNATION
16S

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

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

Example: FJ123456

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

Example: 16SFJ123456

USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NGA OPERATIONAL HELP DESK: 1-800-455-0899; COMMERCIAL 314-263-4884; DSN 693-4884; OR WRITE TO: DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY, ATTN.: ES, MAIL STOP L-88, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5003.

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GRID CONVERGENCE 1°01' (18 MILS) FOR CENTER OF SHEET

2000 G-M ANGLE 5° (90 MILS)

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

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

GN ★ TRUE NORTH MAGNETIC NORTH HURON GRID

THIS MAP IS RED AND BLUE/GREEN LIGHT READABLE

SLOPE GUIDE

PERCENTAGE	DEGREE
15%	8.5°
14%	8.0°
13%	7.4°
12%	6.9°
11%	6.3°
10%	5.7°
9%	5.2°
8%	4.6°
7%	4.0°
6%	3.4°
5%	2.9°

A–B—HORIZONTAL DISTANCE BETWEEN CONTOURS
A–C—HORIZONTAL DISTANCE BETWEEN INDEX CONTOURS

BOUNDARIES

A. Jennings County
1. Bigger Township
B. Ripley County
2. Shelby Township
3. Brown Township
C. Jefferson County
4. Lancaster Township
5. Monroe Township
6. Shelby Township
7. Smyrna Township
8. Madison Township
9. Milton Township
10. Republican Township

ADJOINING SHEETS

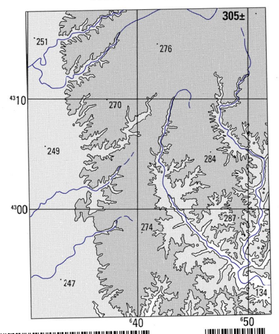
3862 II | 3962 III | 3961 I
3861 I | 3961 IV | 3961 I
3861 II | 3961 III | 3961 II

INDIANA
OHIO RIVER
KENTUCKY
V753
Sheet 3961 IV falls within NJ 16-6
1501, 1:250,000

For index purposes only; not necessarily an indication of published maps

ELEVATION GUIDE

High / Medium / Low



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