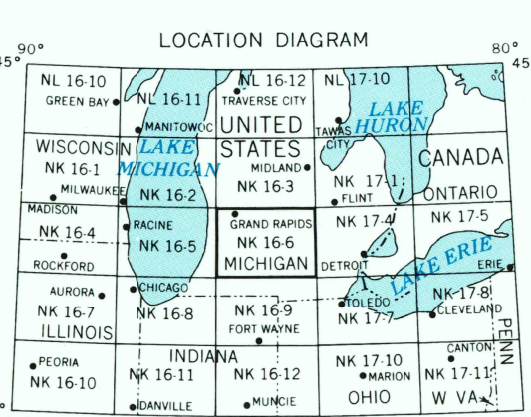
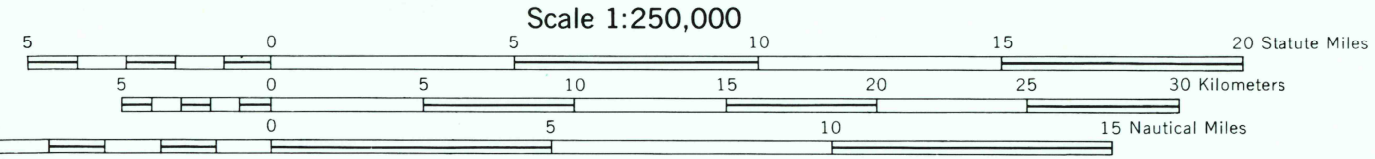


PRODUCED BY THE U. S. GEOLOGICAL SURVEY  
 Base map prepared by Defense Mapping Agency by photogrammetric methods and from 1:50,000 and 1:62,500-scale maps dated 1921-1954. Field checked 1958. Revised by the U. S. Geological Survey from aerial photographs taken 1978 and other source data. Revised information not field checked. Map edited 1980.  
 Transverse Mercator Projection. 10,000-meter Universal Transverse Mercator grid, zone 16. 100,000-foot grid ticks based on Michigan coordinate system, south zone. 1927 North American Datum. To place on the predicted North American Datum 1983, move the projection lines 1 meter north and 1 meter west.  
 Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram.  
 There may be private inholdings within the boundaries of the National or State reservations shown on this map.

**LEGEND**

Figures in red denote approximate distances in miles between stars

POPULATED PLACES	ROADS	RAILROADS	BOUNDARIES
Over 500,000	Primary, all-weather, hard surface	Single track Double or Multiple	International
100,000 to 500,000	Secondary, all-weather, hard surface	Narrow gauge	State
25,000 to 100,000	Light-duty, all-weather, hard or improved surface	Landplane airport	County
5,000 to 25,000	Fair or dry weather, unimproved surface	Landing area	Park or reservation
Less than 1,000	Trail	Seaplane airport	
	Interchange	Seaplane anchorage	
	Route markers: Interstate, U.S., State	Woods-brushwood	
	Mine	Power line	
	Landmark: School; Church; Other		
	Spot elevation in feet		
	Marsh or swamp		
	Intermittent or dry stream		



CONTOUR INTERVAL 50 FEET  
 WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS

1980 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 33° (60 MILES WESTERLY FOR THE CENTER OF THE WEST EDGE TO 44° (60 MILES WESTERLY FOR THE CENTER OF THE EAST EDGE)  
 FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

GRID ZONE DESIGNATION: 16T

100,000 M SQUARE IDENTIFICATION

EC	FC	GC
EB	FB	GB

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

- Read letters identifying 100,000 meter squares on your grid sheet.
- Locate first VERTICAL grid line to LEFT of point and read LARGE figure (above the line) either in the top or bottom margin.
- Estimate tenths from grid line to point.
- Locate first HORIZONTAL grid line BELOW point and read LARGE figure (below the line) either in the left or right margin, or on the line itself.
- Estimate tenths from grid line to point.

SAMPLE REFERENCE: 16T8797

IGNORE THE SMALLER figures of any grid number; these are for finding the full coordinates. Use ONLY THE LARGER figure of the grid number. Example: 460000

16T8797

GRAND RAPIDS, MICHIGAN  
 1958  
 REVISED 1980

RETURN TO:  
 USGS NHD HISTORICAL MAP ARCHIVES

USGS  
 Historical File  
 National Mapping Div.  
 APR 20 1981