



PRODUCED BY THE U. S. GEOLOGICAL SURVEY  
Base map prepared by Defense Mapping Agency by photogrammetric methods. Field checked 1955. Revised by the U. S. Geological Survey from aerial photographs taken 1979 and other source data. Revised information not field checked. Map edited 1981.  
Selected hydrographic data from NOS charts. This information is not intended for navigational purposes.  
Transverse Mercator Projection, 10,000-meter Universal Transverse Mercator grid, zone 16. 100,000-foot grid ticks based on Michigan coordinate system, central and north zones, 1927 North American Datum. To place on the predicted North American Datum 1983, move the projection lines 3 meters north and 2 meters east.  
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**  
Over 500,000  
100,000 to 500,000  
25,000 to 100,000  
5,000 to 25,000  
1,000 to 5,000  
less than 1,000

**ROADS**  
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  
Interchange  
Bor Harbor  
Fishhook  
Landplane airport  
Landing area  
Seaplane anchorage  
Orchard  
Power line  
Woods brushwood  
Marsh or swamp

**BOUNDARIES**  
International  
State  
County  
Park or reservation  
Mine  
Spot elevation in feet

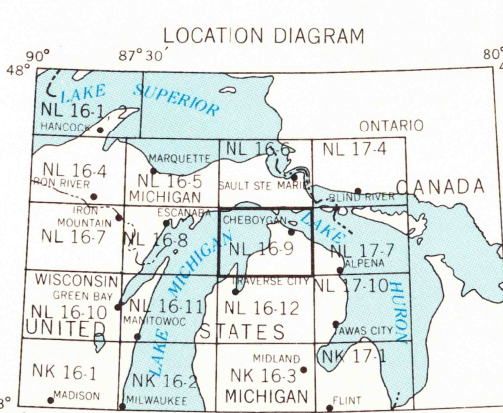
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Primary, all-weather, hard surface  
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**BOUNDARIES**  
International  
State  
County  
Park or reservation  
Mine  
Spot elevation in feet

Scale 1:250,000  
0 5 10 15 20 25 30 Statute Miles  
0 5 10 15 20 25 30 Kilometers  
0 5 10 15 20 25 30 Nautical Miles

CONTOUR INTERVAL 50 FEET  
WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS

1981 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 31° (60 MILES WESTERLY) FOR THE CENTER OF THE WEST EDGE TO 6° (100 MILES WESTERLY) FOR THE CENTER OF THE EAST EDGE  
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092



**SECTIONIZED TOWNSHIP**

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**  
100,000 M. SQUARE IDENTIFICATION  
SAMPLE POINT: WOLVERINE

**TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 1000 METERS**  
1. Read letters identifying 100,000 meter square in which the point lies.  
2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line, either in the top or bottom margin, or on the line itself.  
3. Locate first HORIZONTAL grid line BELOW point and read LARGE figure labeling the line, either in the left or right margin, or on the line itself.  
4. Estimate tenths from grid line to point.  
5. Estimate tenths from grid line to point.

**SAMPLE REFERENCE**  
If reporting known SP in any direction, prefix Grid Zone Designation, as:  
FF8816  
15TFF816