



Produced by the United States Geological Survey  
Topography compiled 1957. Planimetry derived from imagery taken 1999 and other sources. Public Land Survey System and survey control current as of 1960. Boundaries current as of 2002.  
North American Datum of 1983 (NAD 83). Projection and 1000-meter grid: Universal Transverse Mercator, zone 16.  
10 000-foot ticks: Minnesota Coordinate System of 1983 (north zone).  
Canadian portion copied from Pigeon River West quadrangle (1:50 000) 1959, Army Survey Establishment, RCE.  
North American Datum of 1927 (NAD 27) is shown by dashed corner ticks. The values of the shift between NAD 83 and NAD 27 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software.  
There may be private inholdings within the boundaries of the National or State reservations shown on this map.  
Houses of worship, schools, and other labeled buildings verified 1960.

UTM GRID AND 2002 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET  
2° 05' 37" MILS  
44 MILS

SCALE 1:24 000  
KILOMETERS  
METERS  
MILES  
FEET  
CONTOUR INTERVAL 20 FEET IN THE UNITED STATES  
CONTOUR INTERVAL 50 FEET IN CANADA  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
(TO CONVERT ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, ADD 1 FOOT)  
TO CONVERT FROM FEET TO METERS, MULTIPLY BY 0.3048



ROAD CLASSIFICATION  
Primary highway  
hard surface .....  
Secondary highway  
hard surface .....  
Light-duty road, hard or  
improved surface .....  
Unimproved road .....  
Interstate Route  
U.S. Route  
State Route

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

THE CASCADES, MN-ON  
1999

A.H. ROBINSON  
MAP LIBRARY  
SEP 3 2003  
University of Wisconsin  
Madison  
U.S. Regional  
Depository Copy  
DO NOT DISCARD

