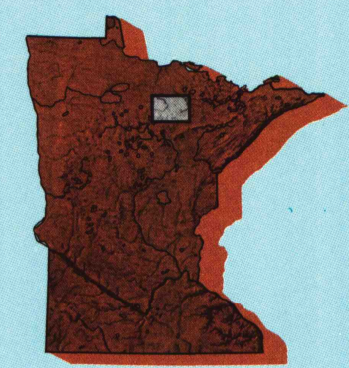


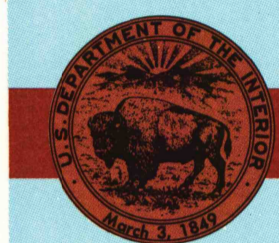
Bigfork MINNESOTA

1:100 000-scale metric
topographic map



30 X 60 MINUTE QUADRANGLE
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



U. S. GEOLOGICAL SURVEY

1976

PHOTOINSPECTED 1987

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1964-1976. Planimetry revised from aerial photographs taken 1973 and other source data. Revised information not field checked. Map edited 1976
 1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 15
 25 000-foot ticks: Minnesota coordinate system, north zone
 The difference between NAD 27 and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875
 There may be private inholdings within the boundaries of the National or State reservations shown on this map
 Map photoinspected using 1987 photographs
 No major culture or drainage changes found

CONTOUR INTERVAL 5 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet	DECLINATION DIAGRAM	ADJOINING MAPS
1	3.2808		1 Upper Red Lake
2	6.5617		2 Littlefork
3	9.8425		3 Crane Lake
4	13.1234		4 Blackduck
5	16.4042		5 Vermillion Lake
6	19.6850		6 Cass Lake
7	22.9659		7 Pokegama Lake
8	26.2467		8 Hibbing
9	29.5275		
10	32.8084		

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1976 magnetic declination (MN) at center of map. Diagram is approximate

FOR SALE BY U. S. GEOLOGICAL SURVEY
 DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A.H. ROBINSON
 MAP LIBRARY
 FEB 27 1995
 U. S. Regional
 Depository Copy
 DO NOT DISCARD

University of Wisconsin
 Madison
Topographic Map Symbols

- Primary highways, hard surface
- Secondary highways, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street; trail
- Route marker: Interstate, U.S. State
- Railroad: standard gage; narrow gage
- Bridge; overpass; underpass
- Tunnel: road; railroad
- Built up area; locality; elevation
- Airport: landing field; landing strip
- National boundary
- State boundary
- Civil township boundary
- National or State reservation boundary
- Land grant boundary
- U.S. public lands survey: range, township, section
- Range, township, section line: protruded
- Power transmission line; pipeline
- Dam; dam with lock
- Cemetery; building
- Windmill; water well; spring
- Mine shaft; oil or cave; mine, quarry, gravel pit
- Campground; picnic area; U.S. location monument
- Ruins; cliff dwelling
- Distorted surface: strip mine, lava; sand
- Contours: index; intermediate; supplementary
- Bathymetric contour: index; intermediate
- Stream, lake: perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be reclaimed; marsh; swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request



SET
Bole-7/8