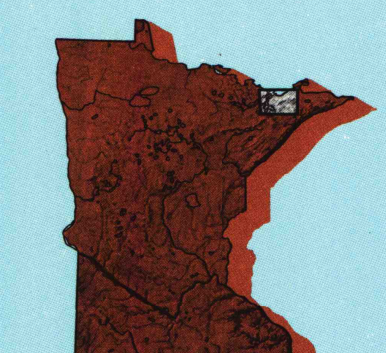




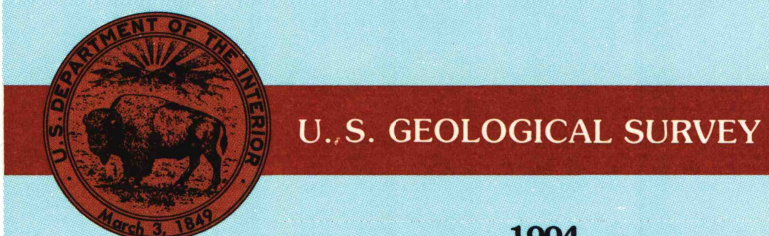
# Ely MINNESOTA

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



1994

Produced by the United States Geological Survey  
 Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1951-1969. Planimetry revised from aerial photographs taken 1991-92 and other source data. Revised information not field checked. Map edited 1994  
 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

CONTOUR INTERVAL 10 METERS  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	MAGNETIC DECLINATION		1	2	3
1	3.2808			1	2	3
2	6.5617			4	5	6
3	9.8425			7	8	
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
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 1984 magnetic declination (MD))  
 Diagram is approximate

1 Crane Lake  
 2 Basswood Lake  
 3 Saganaga  
 4 Vermillion Lake  
 5 Grand Marais  
 6 Hibbing  
 7 Two Harbors  
 8 Otter Island

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### University of Wisconsin Map Symbols

Topographic	Map	Symbols
Primary highway, hard surface	Secondary highway, 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
County boundary	Civil township boundary	National or State reservation boundary
Land grant boundary	U.S. public lands survey: range, township, section	Range, township, section line: protracted
Power transmission line; pipeline	Dam; dam with lock	Cemetery; building
Well; water well; spring	Mine shaft: adit 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 contours: index; intermediate	Stream, lake; perennial; intermittent	Rapids, large and small; falls, large and small
Area to be submerged: marsh, swamp	Land subject to controlled inundation; woodland	Scrub; mangrove
Orchard; vineyard		