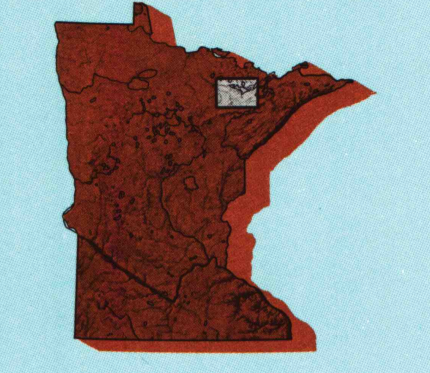




# Vermilion Lake MINNESOTA

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



Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1949-1976. 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 landholdings within the boundaries of the National or State reservations shown on this map.

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

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet	DECLINATION DIAGRAM		ADJOINING MAPS				
1	3.2808			1	2	3	4	
2	6.5616			5	6	7	8	
3	9.8424							
4	13.1232							
5	16.4040							
6	19.6848							
7	22.9656							
8	26.2464							
9	29.5272							
10	32.8080							

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

UTM grid convergence (GN) and 1994 magnetic declination (MN) at center of map. Diagram is approximate.

1 Littlefork  
2 Crane Lake  
3 Burnwood Lake  
4 Hibbing  
5 Ely  
6 Pokegama Lake  
7 Hibbing  
8 Two Harbors

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A.H. ROBINSON  
MAP LIBRARY  
MAR 24 1995

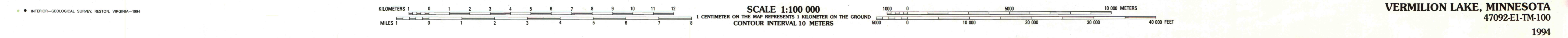
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Madison

### 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	
Turnout: road, railroad	
Bus stop, 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: protected	
Power transmission line: pipeline	
Dam; dam with lock	
Cemetery: building	
Windmill; 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, water	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request



VERMILION LAKE, MINNESOTA  
47092-E1-TM-100  
1994

2006-98