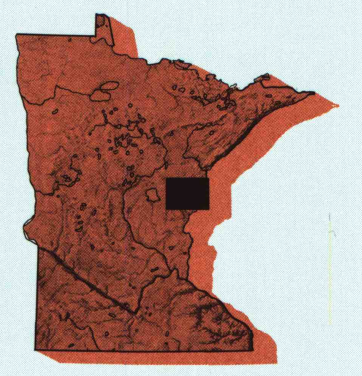
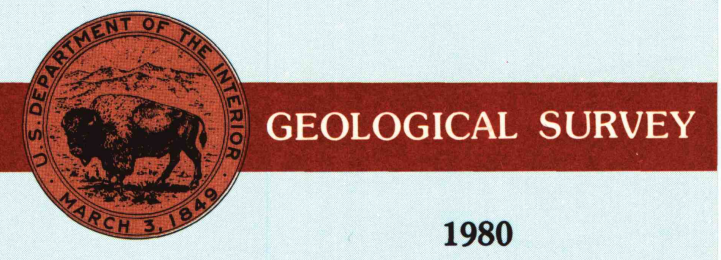


1:100 000-scale metric topographic map of Sandstone MINNESOTA-WISCONSIN



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 and 1:62 500-scale topographic maps dated 1954-1975. Map edited 1980
 Planimetry revised from aerial photographs taken 1974-1977 and other source data. Revised information not field checked
 Projection and 10 000-meter grid, zone 15, Universal Transverse Mercator
 25 000-foot grid ticks based on Minnesota coordinate system, central zone, and Wisconsin coordinate system, north zone. 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 8 meters north and 15 meters east
 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	M	N	1	2	3
1	3.2808		71° 15' M 71° 15' N	1	2	3
2	6.5617			4	5	
3	9.8425			6	7	
4	13.1234			8		
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
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 1980 magnetic declination (MN) at center of map
 Diagram is approximate

1 Ashkin
 2 Duluth
 3 Pon Wagon
 4
 5 Solon Springs
 6
 7
 8 Spooner

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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 gauge; narrow gauge	
Bridge, overpass, underpass	
Tunnel: road; railroad	
Built-up area: locality, elevation	
Airport: landing field; landing strip	
National boundary	
State boundary	
County 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 or cave; mine, quarry; gravel pit	
Campground; picnic area; U.S. location monument	
Ruin; cliff dwelling	
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	

A pamphlet describing topographic maps is available on request

NON-CIRCULATING

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