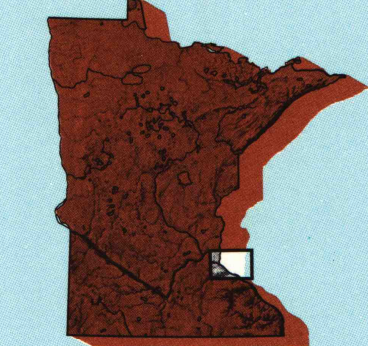




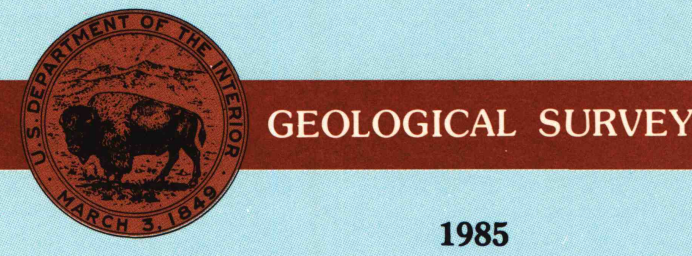
Hastings MINNESOTA-WISCONSIN

1:100 000-scale
planimetric map



30 X 60 MINUTE QUADRANGLE
SHOWING

- 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 1967-1980. Planimetry revised from aerial photographs taken 1960 and other source data. Revised information not field checked. Map edited 1985.
Projection and 10 000-meter grid, zone 15, Universal Transverse Mercator
25 000-foot grid ticks based on Wisconsin coordinate system, central zone and Minnesota coordinate system, south zone 1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 7 meters north and 15 meters east
There may be private inholdings within the boundaries of the National or State reservations shown on this map

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		1	2	3									
1	3.2808		4	5										
2	6.5617													
3	9.8425													
4	13.1234													
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		UTM grid convergence (GM) and 1983 magnetic declination (MD) at center of map Diagram is approximate	<table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td></td></tr><tr><td>6</td><td>7</td><td>8</td></tr></table> 1 Anoka 2 Stillwater 3 Bloomer 4 St Paul 5 Eau Claire 6 Faribault 7 Rochester 8 Winona			1	2	3	4	5		6	7	8
1	2		3											
4	5													
6	7	8												
To convert feet to meters multiply by 0.3048														

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RESTON, VIRGINIA 22092

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
- Railway 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
- 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
- Range, township, section line: protracted
- 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, swamp
- Land subject to controlled inundation: woodland
- Scrub, mangrove
- Orchard, vineyard

U.S. Regional
Department of
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A pamphlet describing topographic maps is available on request
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