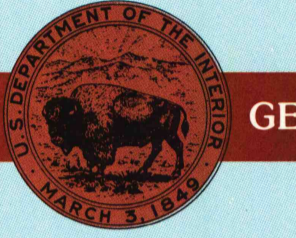


30 X 60 MINUTE QUADRANGLE SHOWING

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



GEOLOGICAL SURVEY

1984

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1963-1966. Planimetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1984.
 Projection and 10 000-meter grid, zone 16, Universal Transverse Mercator
 25 000-foot grid ticks based on Minnesota coordinate system, north and central zones and North Dakota coordinate system, north and south zones
 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 6 meters north and 25 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

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 THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	1°N	1°S	1	2	3
1	3.2808		33 MILES 178 MILES	1	2	3
2	6.5617			4	5	
3	9.8425			6	7	
4	13.1234			8	9	
5	16.4042			10		
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 1983 magnetic declination (MN) at center of map
 Diagram is approximate

1 Grand Forks
 2 Crookston
 3 Fosston
 4 Hibbard
 5 Lake Itasca
 6 Casselton
 7 Fargo
 8 Detroit Lakes

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OCT 25 2004

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
- 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
- Wellhead; 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
- Barometric 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

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A pamphlet describing topographic maps is available on request

