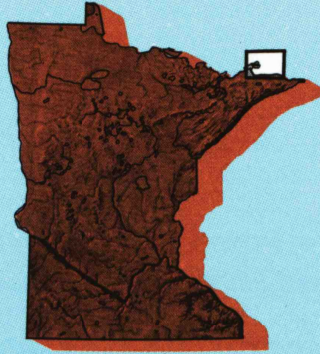


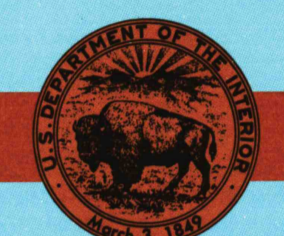
Saganaga Lake MINNESOTA-ONTARIO

1:100 000-scale metric
topographic map



30 X 60 MINUTE QUADRANGLE
SHOWING

- Contours and elevations
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



U. S. GEOLOGICAL SURVEY

1976 / 1994
PHOTOINSPECTED 1991

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1959-76. Planimetry refined from aerial photographs taken 1973 and other source data. Revised information not field checked. Map edited 1976. Canadian portion copied from Department of Energy, Mines and Resources, 1:50,000-scale topographic maps dated 1979. Canadian portion of this map © by Her Majesty the Queen in Right of Canada, and may not be reproduced or redistributed without express consent of Energy, Mines and Resources Canada, 4th Floor, 615 Booth Street, Ottawa, Ontario, K1A 0E9.

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. The U.S. portion of this map photoinspected using 1991 photographs. No major culture or drainage changes found.

CONTOUR INTERVAL 10 METERS IN UNITED STATES
 CONTOUR INTERVAL 50 FEET IN CANADA
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

ELEVATIONS SHOWN TO THE NEAREST METER IN UNITED STATES
 ELEVATIONS SHOWN TO THE NEAREST FOOT IN CANADA
 THE U.S. PORTION OF THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	M	M	1	2	3
1	3.2808	11°	11°	1	2	3
2	6.5617	12°	12°	4	5	
3	9.8425	13°	13°	6	7	8
4	13.1234	14°	14°			
5	16.4042	15°	15°			
6	19.6850	16°	16°			
7	22.9659	17°	17°			
8	26.2467	18°	18°			
9	29.5275	19°	19°			
10	32.8084	20°	20°			

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

UTM grid convergence (CM) at 1976 magnetic declination (M) at center of map
 Diagram is approximate

1 Bismarck Lake
 2 Pigeon Point
 3 Elk
 4 Grand Marais
 5 Grand Portage

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR 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
- Road marker: intermediate, 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
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry; gravel pit
- Campground; picnic area; U.S. location monument
- Ruin; cliff dwelling
- Distorted surface: strip mine, levee, 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



SAGANAGA LAKE, MINNESOTA-ONTARIO
 48090-A1-TM-100
 1976
 PHOTOINSPECTED 1991

