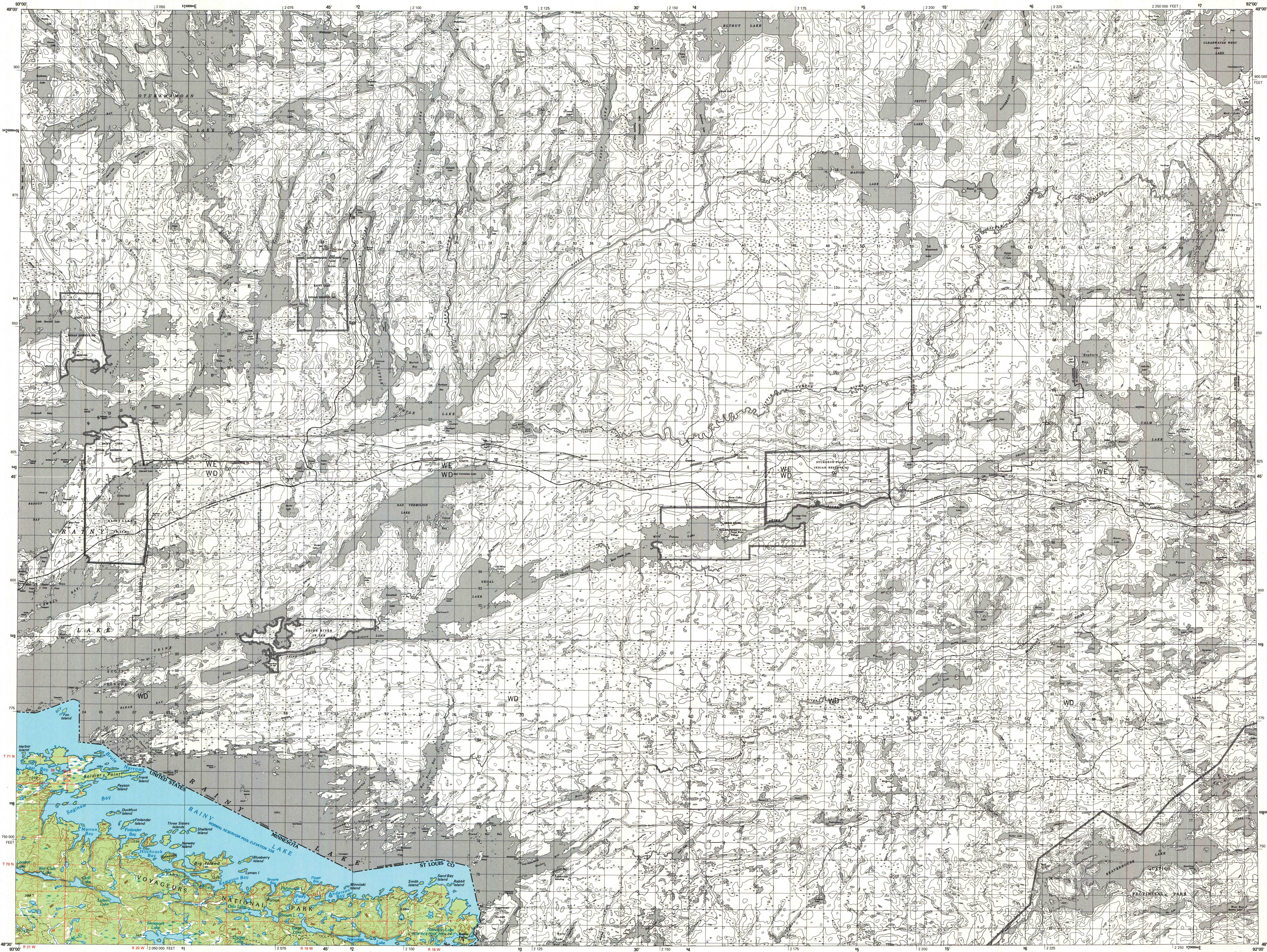


BRULE NARROWS, MINNESOTA-ONTARIO

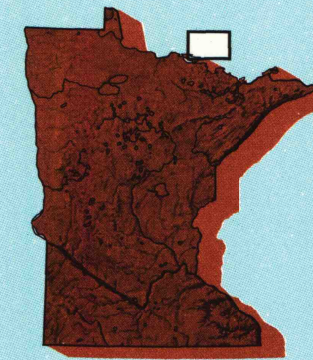
30 X 60 MINUTE SERIES (TOPOGRAPHIC)



Brule Narrows

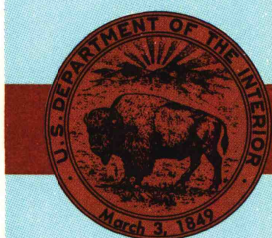
MINNESOTA-ONTARIO

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

1978
PHOTOINSPECTED 1987

Produced by the United States Geological Survey
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1967-68. Map edited 1978.
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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 1987 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		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	29.5276				
10	32.8084				
To convert meters to feet multiply by 3.2808		UTM grid convergence (G) and 1978 magnetic declination (M) at center of map. Diagram is approximate.	1	2	3
To convert feet to meters multiply by 0.3048			4 International Falls	5	6
			7 Crane Lake	8	
			8 Basewood Lake		

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

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Madison

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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 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: 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	
Disturbed 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	

A pamphlet describing topographic maps is available on request

SET 3006-7/8

1978
PHOTOINSPECTED 1987

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 10 METERS IN UNITED STATES
CONTOUR INTERVAL 50 FEET IN CANADA

BRULE NARROWS, MINNESOTA-ONTARIO
48092-E1-TM-100