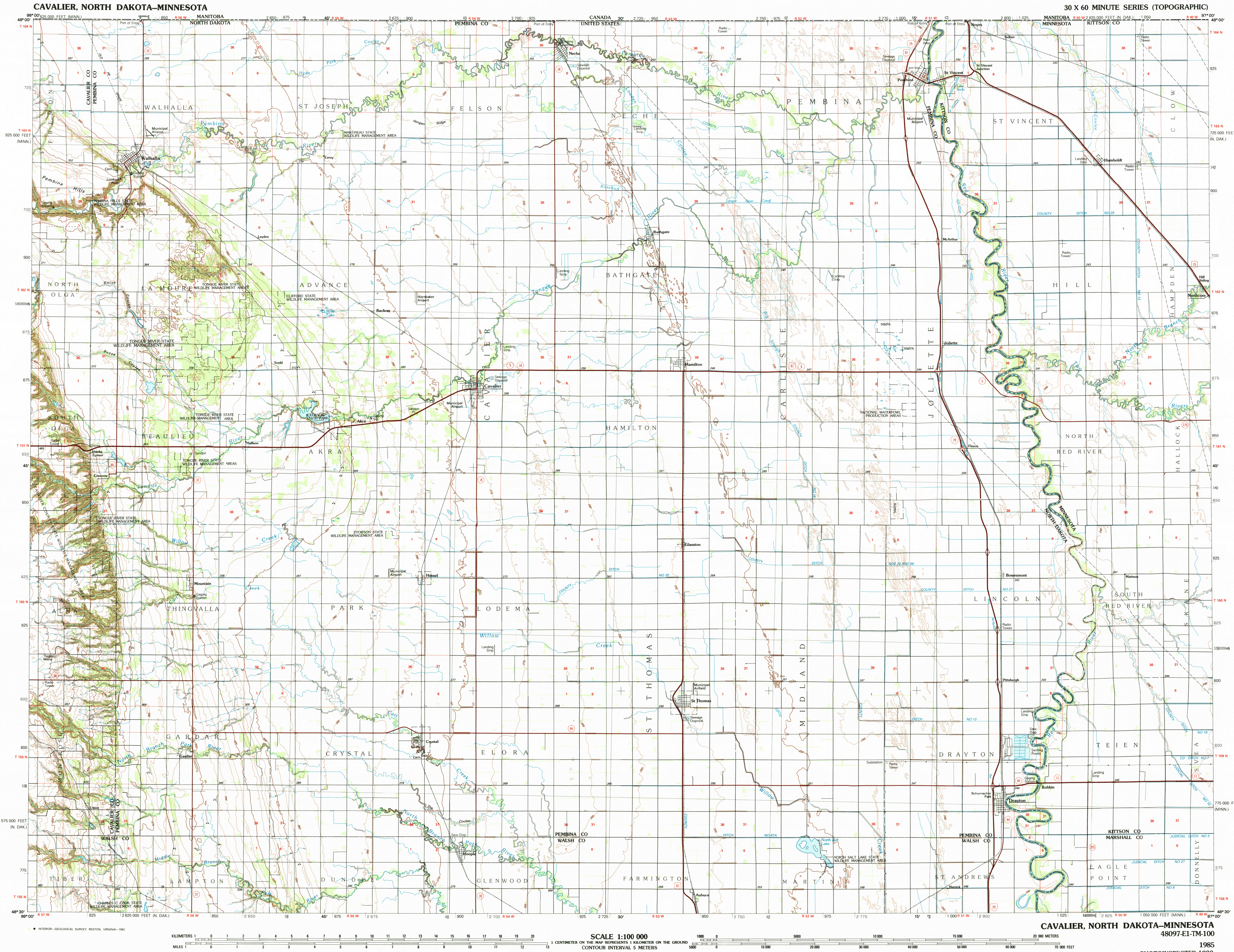




Cavalier

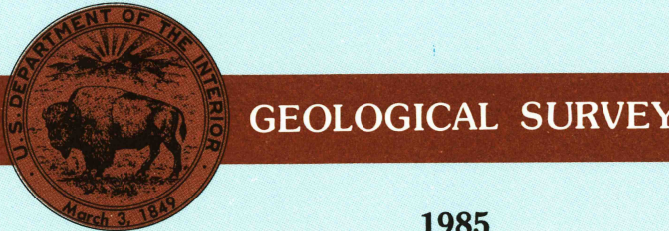
NORTH DAKOTA-MINNESOTA

1:100 000-scale metric topographic map



30 X 60 MINUTE QUADRANGLE SHOWING

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



1985

PHOTOINSPECTED 1990

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1963-1979. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1985.

Projection and 10 000-meter grid, zone 14, Universal Transverse Mercator
25 000-foot grid ticks based on North Dakota coordinate system, north zone and Minnesota coordinate system, north zone 1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 4 meters north and 26 meters east
There may be private inholdings within the boundaries of the National or State reservations shown on this map
Map photoinspected using 1990 photographs
No major culture or drainage changes found

CONTOUR INTERVAL 5 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		1	2	3
1	3.2808	GN M 1°08' 75°E 20 MILES 135 MILES	1	2	3
2	6.5617		4	5	
3	9.8425		6	7	8
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 (GN) and 1985 magnetic declination (MN) at center of map Diagram is approximate	4	Landong	
To convert feet to meters multiply by 0.3048			5	Hallcock	
			6	Devils Lake	
			7	Grallion	
			8	Thief River Falls	

FOR SALE BY U.S. GEOLOGICAL SURVEY
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Topographic Map Symbols

- Primary highway, hard surface.....
Secondary highways, hard surface.....
Light duty road, principal street, hard or improvesurface.....
Other road or street; track.....
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: 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.....
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.....
Sands; meadow.....
Orchard; vineyard.....

A pamphlet describing topographic maps is available on request