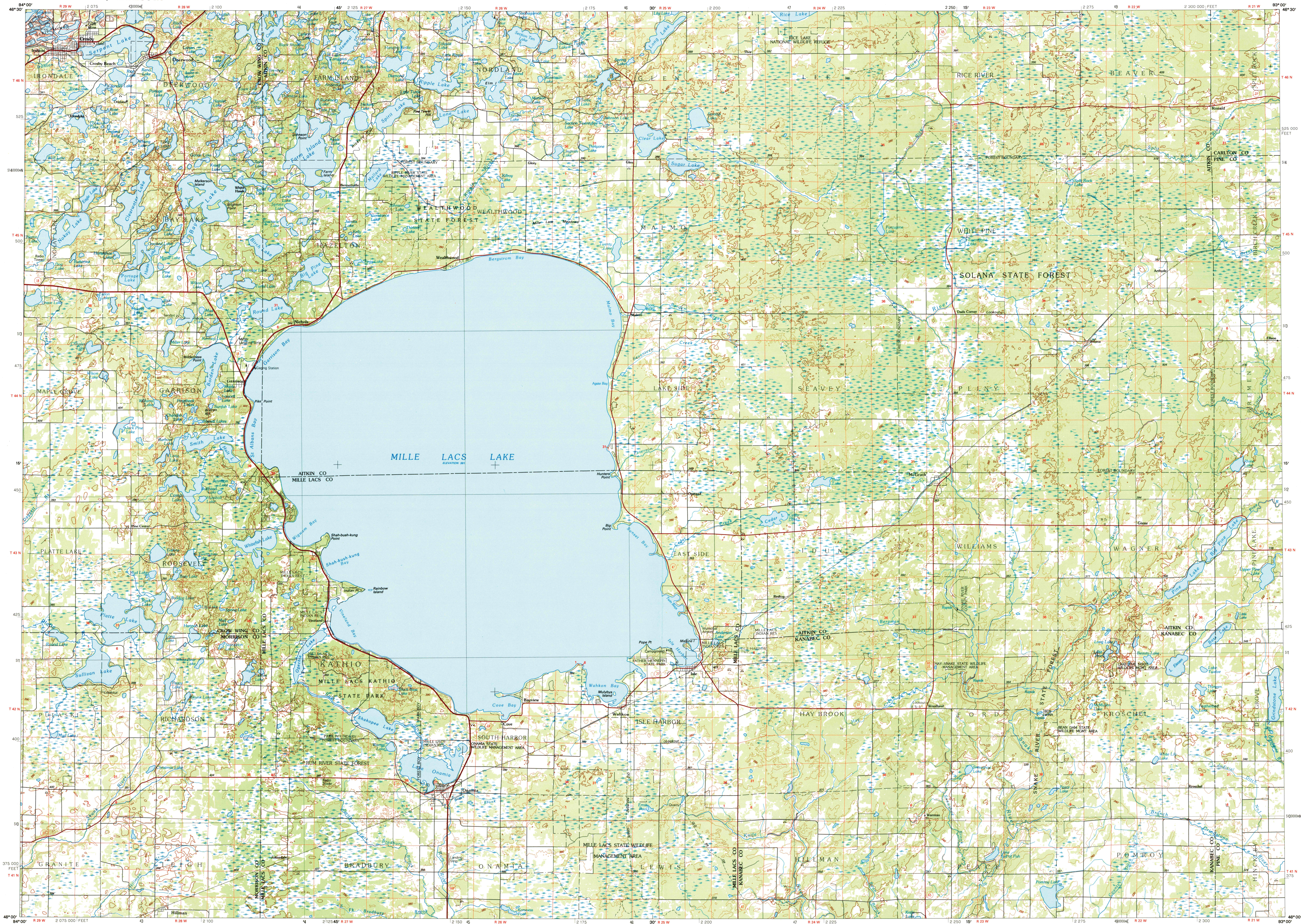
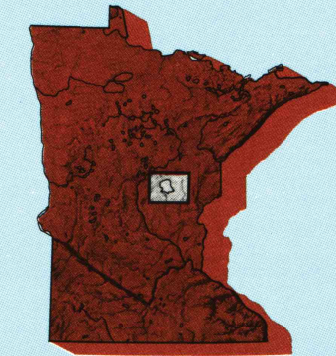
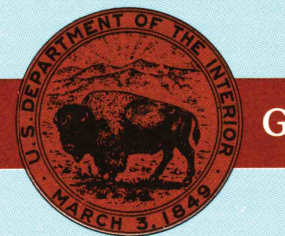


MILLE LACS LAKE, MINNESOTA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)

Mille Lacs Lake
MINNESOTA1:100 000-scale metric
topographic map30 X 60 MINUTE QUADRANGLE
SHOWING

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



GEOLOGICAL SURVEY

1985
PHOTOINSPECTED 1984

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1968-1973. Planimetry revised from aerial photographs taken 1978 and 1982 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 Minnesota coordinate

system, central zone

1927 North American Datum

To place on the predicted North American Datum 1983, move

the projection lines 8 meters north and 17 meters east

There may be private inholdings within the boundaries of

the National or State reservations shown on this map

Map photoinspected using 1984 photographs

No major culture or drainage changes found

CONTOUR INTERVAL 10 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE

Meters	Feet
1	3.2808
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

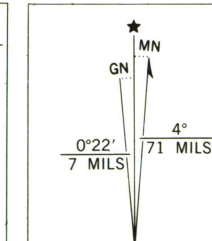
To convert meters to feet

multiply by 3.2808

To convert feet to meters

multiply by 0.3048

DECLINATION DIAGRAM



UTM grid convergence

(GN) and 1985 magnetic

declination (MN)

at center of map

Diagram is approximate

ADJOINING MAPS

1	2	3
1	2	3
4	5	6
7	8	9

1 Pine River

2 Atkin

3 Duluth

4 Brainerd

5 Sandstone

6 Sault Cloud

7 Mora

8 Grantsburg

FOR SALE BY U. S. GEOLOGICAL SURVEY

DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

USGS AND HISTORICAL

MAP ARCHIVES

DEC 30 1991

RECYCLED PAPER COPY

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: 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	Dissected 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	Drainage; vineyard
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A pamphlet describing topographic maps is available on request

MILLE LACS LAKE, MINNESOTA

46093-A1-TM-100

1985

PHOTOINSPECTED 1984

• INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1991

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 10 METERS