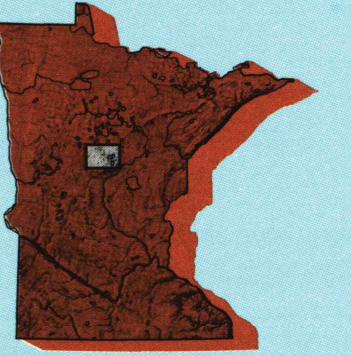


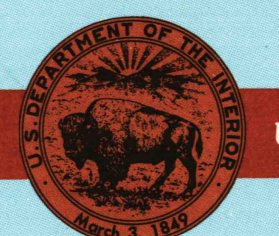
# Pine River MINNESOTA

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



U. S. GEOLOGICAL SURVEY  
1976/99  
PHOTOINSPECTED 1991

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps dated 1959-1971. Planimetry revised from aerial photographs taken 1991 and other source data. Revised information not field checked. Map edited 1976  
1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 15  
25 000-foot ticks: Minnesota coordinate system, central 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  
Map photoinspected using 1991 photographs  
No major culture or drainage changes found

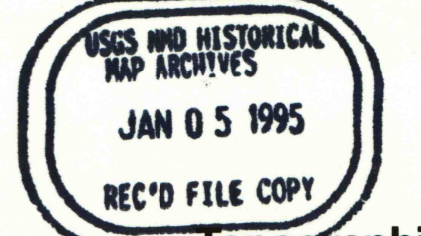
CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS							
Meters	Feet		1	2	3	4	5	6	7	8
1	3.2808		1	2	3	4	5	6	7	8
2	6.5617		1 Lake Itasca	2 Cass Lake	3 Pokegama Lake	4 Detroit Lakes	5 Aitkin	6 Battle Lake	7 Brainerd	8 Mille Lacs Lake
4	13.1234									
6	19.6851									
8	26.2469									
10	32.8086									
20	65.6172									
30	98.4258									
40	131.2344									
50	164.0430									

To convert meters to feet multiply by 3.2808  
To convert feet to meters multiply by 0.3048  
UTM grid convergence (GN and MN) magnetic declination (MN) at center of map  
Diagram is approximate

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
- 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: projected
- 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

