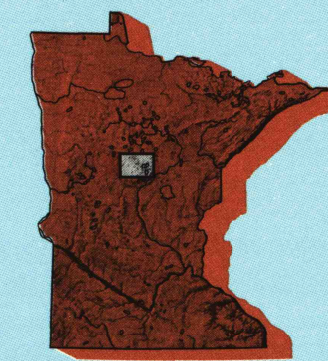
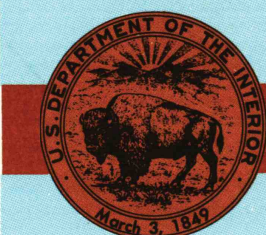


PINE RIVER, MINNESOTA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)

Pine River
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



U. S. GEOLOGICAL SURVEY

1976/69
PHOTOINSPECTED 1991

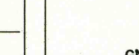
Produced by the United States Geological Survey

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

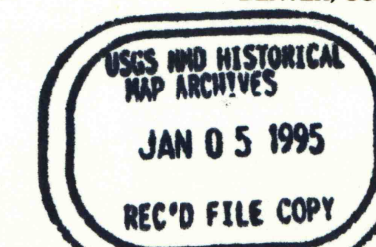
There may be private inholdings within the boundaries of the National or State reservations shown on this map Map photoinspected using 1991 photographs No major culture or drainage changes found

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
1	3.2808		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 10% magnetic declination (MN) at center of map Diagram is approximate	1 Lake Itasca 2 Cass Lake 3 Pokegama Lake 4 Detroit Lakes 5 Aitkin 6 Battle Lake 7 Brainerd 8 Mille Lacs Lake		
To convert feet to meters multiply by 0.3048					

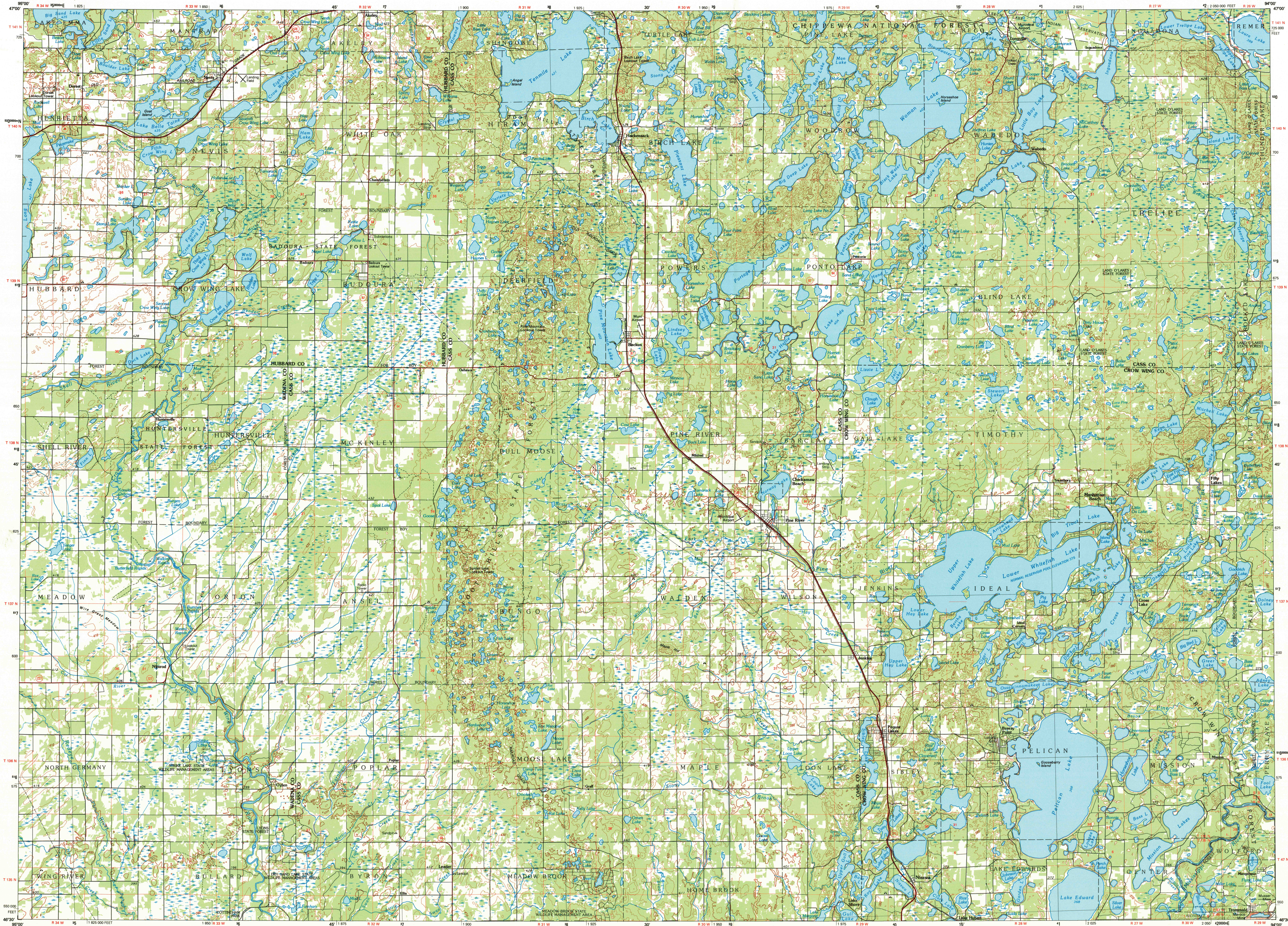
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092



Topographic Map Symbols

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
Ruin; 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	Scrub; mangrove
Orchard; vineyard		

A pamphlet describing topographic maps is available on request



• INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994

SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 10 METERS

PINE RIVER, MINNESOTA
46094-E1-TM-100
1976
PHOTOINSPECTED 1991