

1:100 000-scale metric topographic map of Duluth MINNESOTA-WISCONSIN



30 X 60 MINUTE QUADRANGLE SHOWING

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



GEOLOGICAL SURVEY

dated 1953-1980. Planimetry revised from aerial photographs taken 1977 and other source data. Revised information not field checked. Map edited 1980

Projection and 10 000-meter grid, zone 15,
Universal Transverse Mercator
25 000-foot grid ticks based on Minnesota coordinate system, north and central zones and Wisconsin coordinate system, north zone. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 8 meters north and 15 meters east

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Produced by the United States Geological Survey Compiled from USGS 1:24 000-scale topographic maps

CONTOUR INTERVAL 10 METERS SUPPLEMENTARY CONTOUR INTERVAL 5 METERS NATIONAL GEODETIC VERTICAL DATUM OF 1929 ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet	*	1	2	;
1	3.2808	MN			
2	6.5617	GN	4		
3	9.8425				
4	13.1234		6	7	8
5 6	16.4042	4°			
6	19.6850	0°22′ 71 MILS			
7	22.9659	7 MILS			
8	26.2467		1 Deles		
	29.5276		1 Poke		
10	32.8084		2 Hibb 3 Two	ing Harbors	
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1980 magnetic declination (MN)	4 Aitkin 5 Port Wing 6 7 Sandstone		
multiply by 3	.2808 et to meters	(GN) and 1980 magnetic	5 Port	Wing	e

FOR SALE BY U. S. GEOLOGICAL SURVEY
MAP AND AIR PHOTO
LIBRARY
RESTON, VIRGINIA 22092

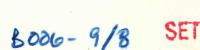
NOV 1 0 1980

University of Wisconsin Madison

## 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	$\bigcap$ $\bigcap$	$\gamma$
Railroad: standard gage; narrow gage		
Bridge; overpass; underpass	+ 1	<del>                                     </del>
Tunnel: road; railroad	$\rightarrow$ - $\leftarrow$	$\rightarrow \rightarrow - \leftarrow$
Built up area; locality; elevation		• 155
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		<u>D</u>
Cemetery; building	<u>[</u> ]	
Windmill; water well; spring	Ž o	0~
Mine shaft; adit or cave; mine, quarry; gravel pit	<b>□</b>	× ×
Campground; picnic area; U.S. location monument	7	
Ruins; cliff dwelling	L	A CONTRACTOR
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		- silk
Area to be submerged; marsh, swamp		27Tr _ 27Tr
Land subject to controlled inundation; woodland	0.00 2.00 200	, "00" "00" "
Scrub; mangrove	10000000	"AFBY W"TH

namphlet describing tonographic mans is available on request



NON-CIRCULATING 1980