UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DULUTH HEIGHTS QUADRANGLE

MINNESOTA—ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
S'W/4 DULUTH 15' QUADRANGLE

7577 IV NE (TWIG)
7577 I NE (ARNOLD)
7577 I NW (FREDENBERG)
7577 IV SE (ADOLPH)
7577 I SE (DULUTH)
(ESKO) 7577 II NE
(SUPERIOR) 2577 II NE
(WEST DULUTH) 7577 II NW

92°15′ — 92°07′30″ — 46°52′30″ — 46°45′

558000m E. — 559 — 560 — 12′30″ — 561 — 562 — 10′ — 564000m E. — 565 — 2 240 000 FEET — 566

5191000m N. — 5190 — 5189 — 5188 — 5187 — 50′ — 5186 — 5185 — 5184 — 5183 — 5182 — 5181 — 5180 — 100 000 FEET — 5178000m N.

T. 51 N. — T. 50 N. — T. 49 N.

FREDENBERG 6.8 MI.
AURORA 52 MI.
MARKHAM 35 MI.
R. 15 W. — R. 14 W.
2.1 MI. TO U.S. 61
SUPERIOR, WIS. (CH) 8 MI.
1.4 MI. TO U.S. 2
COTTON 39 MI.
FOUR CORNERS 1.6 MI.
FIVE CORNERS 1.5 MI.
FLOODWOOD 37 MI.
ADOLPH 3.8 MI.
DULUTH (CH) 2.7 MI.
DULUTH (CH) 1.7 MI.
SUPERIOR (COURTHOUSE) 4.5 MI.

Wild Rice Lake Reservoir
CANOSIA
RICE LAKE
HERMAN
MIDWAY
DULUTH INTERNATIONAL AIRPORT
DULUTH CITY BOUNDARY
Chester Creek
East Branch Chester Creek
Midway River
Mogie Lake
Twin Lakes
Golf Course
Gethsemane Ch
Hermantown High Sch
Hermantown Cem
Jewish Cem
Union Cem
Town Hall
St Paul Ch
Bethany Cem
Radio Range Towers
Salem Ch
Oneota Cem
Playground
Lowell Sch
Pennell Park
Duluth Heights
Gravel Pits
Ensign Sch
SS Peter and Paul Sch
Lincoln Sch
Harrison Park
Bryant Sch
Missabe Junction
Orpheum
Wheeler Field
Merritt Park
Merritt Sch
Municipal Stadium
ENGER PARK
Trailer Park
Golf Course
Drive-in Theater
Gravel Pit
Pit
Playground
Trailer Park
Radio Range Towers
Pipeline
Martin Road
Arrowhead Road
Maple Grove Road
Hermantown Road
Morris Thomas Road
Sunrise Memorial Cemetery
Miller Trunk Highway
Skyline Parkway
Superior Street
Mesaba Avenue
Piedmont Avenue
Lake Avenue
Rice Lake Road
Glen Avenue
Haines Road
Stenner Road
Lavaque Road
Kingsbury
Grant Road
Arlington Avenue
Buckingham
Keene Creek
Creek
BM 1443
BM 1452
BM 1420
BM 1282
BM 1365
BM 1664
BM 1627
1 MILE
7000 FEET
1 KILOMETRE

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1952. Field check 1953
Hydrography from U. S. Lake Survey Chart 966 (1:15,000)

Polyconic projection. 1927 North American datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-metre Universal Transverse Mercator grid ticks
zone 15, shown in blue

Red tint indicates areas in which only landmark buildings are shown

Revisions shown in purple compiled in cooperation with the State of Minnesota from aerial photographs taken 1969 and 1975. This information not field checked

Purple tint indicates extension of urban areas

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS 601 FEET

MN — GN — 0°36′ 11 MILS — 3½° 62 MILS
UTM GRID AND 1975 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Map photoinspected 1981
No major culture or drainage changes observed

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Heavy-duty — 4 LANE | 6 LANE — Light-duty
Medium-duty — 4 LANE | 6 LANE — Unimproved dirt
U. S. Route — State Route — Interstate Route

MINN. — QUADRANGLE LOCATION

DULUTH HEIGHTS, MINN.
SW/4 DULUTH 15' QUADRANGLE
N4645—W9207.5/7.5
PHOTOINSPECTED 1981
1953
PHOTOREVISED 1969 AND 1975
AMS 7577 I SW—SERIES V872

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1990

USGS NMD HISTORICAL MAP
SEP 06 1990
REC'D FILE COPY