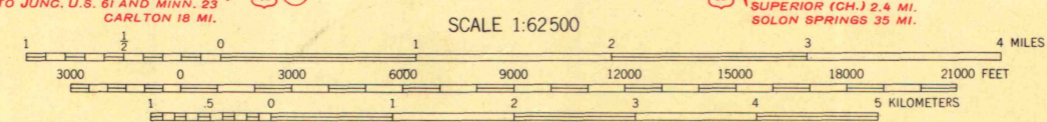


Mapped, edited, and published by the Geological Survey  
Control by USGS, USC&GS, and U. S. Lake Survey  
Compiled in 1958 from 1:24 000-scale maps of Arnold, Fredenberg,  
Duluth Heights, and Duluth 7.5 minute quadrangles, surveyed 1953  
Topography from aerial photographs by photogrammetric methods  
Aerial photographs taken 1952  
Hydrography from U. S. Lake Survey charts 96 (1955)  
and 966 (1952)  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Minnesota coordinate system, north zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 15, shown in blue  
Red tint indicates areas in which only landmark buildings are shown



ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt

U. S. Route (red line with shield)  
State Route (red line with circle)



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 2, COLORADO OR WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

This area also covered by 1:24 000-scale maps of  
Arnold, Fredenberg, Duluth Heights, and Duluth  
7.5-minute quadrangles, surveyed 1953  
DULUTH, MINN.  
N 4645-W 9200/15  
1953