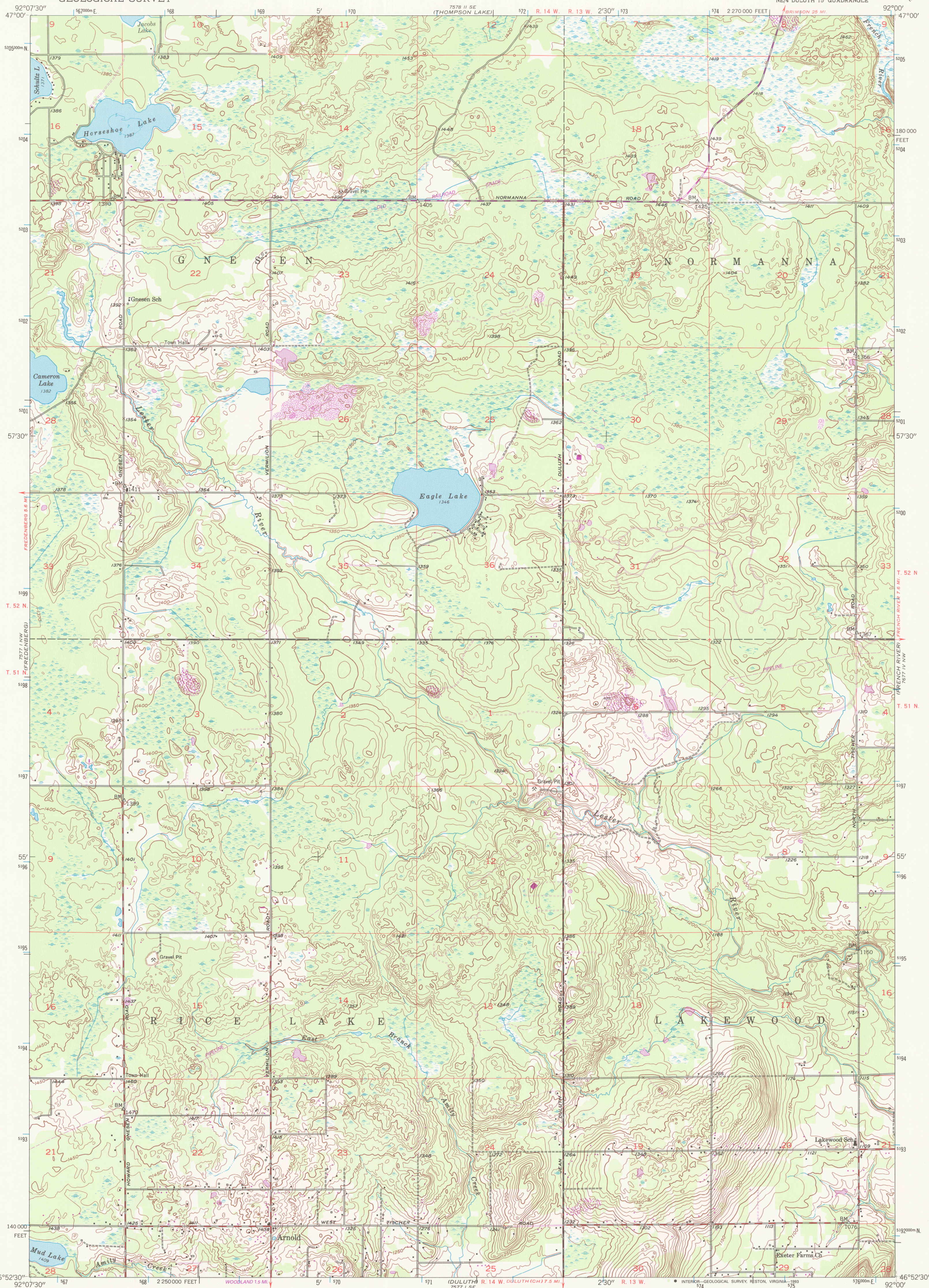


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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



Produced by the United States Geological Survey

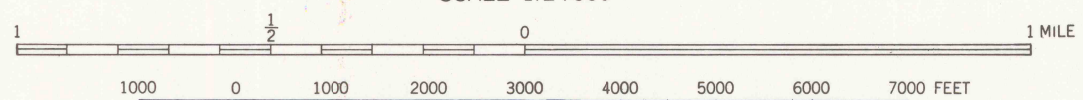
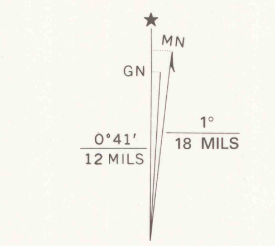
Control by USGS and NGS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1952. Field checked 1953

Depth curves compiled from charts furnished by Minnesota Department of Conservation

Projection and 10,000-foot grid ticks: Minnesota coordinate system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American Datum (NAD 27)

North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are given in USGS Bulletin 1875



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

COMPLIES WITH U.S. GEOLOGICAL SURVEY STANDARDS FOR SPATIAL ACCURACY - CLASS 2
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



QUADRANGLE LOCATION

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

ARNOLD, MINN.
NE/4 DULUTH 15' QUADRANGLE
46092-H1-TF-024

REVISED 1993

DMA 7577 1 NE - SERIES V872

