UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MINNESOTA
DEPARTMENT OF CONSERVATION

HALEY QUADRANGLE
MINNESOTA–ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

7480 II SE (GRR)
7480 II SW (MYRTLE LAKE)
7480 II SE (BUYCK)
7479 IV NE (GHEEN)
7479 I NE (NORWEGIAN BAY)
7479 IV SE (LINDEN GROVE)
7479 I SW (COOK)
7479 I SE (SASSAS CREEK)

92°45′ 48°00′ 92°42′30″ 92°40′ 92°37′30″
519000m.E. 520 521 522 523 524 525 526 2 110 000 FEET 527
R. 19 W. R. 18 W.
5316000m.N. 5315 5314 5313 5312 57′30″ 5311 5310 5309 5308 5307 55′ 5306 5305 5303000m.N. 47°52′30″

T. 64 N.
T. 63 N.
T. 62 N.
540 000 FEET
510 000 FEET

BUYCK 19 MI.
CRANE LAKE 31 MI.

L E I D I N G
K A B E T O G A M A
S T A T E F O R E S T
B E A T T Y
F I E L D

ELBOW RIVER
ELBOW LAKE
Hoodoo Lake 1370
Hoodoo Creek
Sunset Lake 1368
Sunset Creek
Suson Lake 1356
Black Lake 1358
Black Creek
Gravel Pit
BM 1379
BM 1372
BM 1363
BM 1390
BM 1366
BM 1369
BM 1338
BM 1312
BM 1320
BM 1336
MC
Jacobsons Point
Hibbing Point
Piccard Island
Head of the Lakes Bay
VERMILION LAKE
ELEVATION 1358
Schmidts Island
Ormonds Island
Taylors Island
Wakemup
Wakemup Bay
Indian Cem
Bible Camp
Haley
DULUTH, WINNIPEG & PACIFIC
STATE FOREST BOUNDARY
Flint Creek
Radio Tower
Gravel Pits
Gravel Pit

1.3 MI. TO U.S. 53
COOK (U.S. 53) 1.9 MI.
VIRGINIA (VIA U.S. 53) 29 MI.

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1969

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1964

Depth curves and soundings compiled from charts furnished by Minnesota Department of Conservation

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

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

MN
GN
0°14′ 4 MILS
4½° 80 MILS
UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 5 0 1 KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

USGS
Historical File
Topographic Division

MINN.
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty
Light-duty
Unimproved dirt

HALEY, MINN.
N4752.5—W9237.5/7.5
1964
AMS 7479 I NW—SERIES V872

U.S.G.S.
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TOPOGRAPHIC DIVISION
4280
JUL 3 1969