

84°30' 45°00'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

JOHANNESBURG QUADRANGLE
MICHIGAN—OTSEGO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

47°18' 1.42 200



Maped by the Army Map Service
Published for civil use by the Geological Survey
Control by USC&GS, USGS, and CE
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1949. Field check 1950
Polyconic projection. 1927 North American datum
10,000-foot grid based on Michigan coordinate system,
east zone
1000-meter Transverse Mercator grid ticks,
zone 16, shown in blue
Unchecked elevations are shown in brown

UTM GRID AND 1950 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
1 000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 2 3 4 5 6 7 8 9 10 KILOMETER
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route
Light-duty road, hard or improved surface

JOHANNESBURG, MICH.
N4452.5 - W8422.5/7.5

1950

AMS 4173 IV NW—SERIES V862

USGS NHD HISTORICAL
MAP ARCHIVES
SEP 22 1994
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