UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# MALVERN QUADRANGLE
OHIO
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 CARROLLTON 15' QUADRANGLE

(CANTON EAST) (HOMEWORTH) (DOVER 1:62500) (CARROLLTON) (MINERVA)

81°15' 81°07'30" 40°45' 40°37'30"

480000m.E. 489000m.N. 2 380 000 FEET 2 350 000 FEET 360 000 FEET 390 000 FEET

R. 7 W. R. 6 W. 12'30" 10'

EAST CANTON 3.3 MI. CANTON 12 MI. ROBERTSVILLE 3.3 MI. MINERVA 1.2 MI. LISBON 21 MI. MINERVA 1.6 MI. ALLIANCE 16 MI. WAYNESBURG 2.7 MI. CANTON 12 MI. MAGNOLIA 3 MI. DOVER 18 MI. 0.8 MI. TO OHIO 80 DELLROY 5.3 MI. 2.3 MI. TO OHIO 43 CARROLLTON 5.7 MI. CARROLLTON 7.6 MI.

T. 18 N. T. 17 N. T. 16 N. T. 15 N.

STARK CO CARROLL CO

GEOGRAPHERS LINE

Mapleton Christ Ch Township Cem Glen Cem Airstrip Orchard View Drive Black Run Creek Strip Mine Osnaburg Hillchurch Street Wainfield Drive Salem Ch Sandy Little Sandy Creek Brookford Avenue Elson Street Waynesburg Brickkilns Substation Turkey Hollow Road Heine Avenue Weimer Drive Robertsville Avenue Armstrong Drive Run Telpahak Ridge Road Oil Well Paris Street Liberty Ch Cem Hugle Paris and St Louis Pipeline (Coal) Minerva Airfield Shiveley Cem Chicago and New York Pipeline NY C & St L Pipeline Camp Sands YMCA Camp Minerva Junction Pekin Cem Pennsylvania Pipeline Oneida Malvern Water Tower Cem Village Park Bethlehem Cem Drive-in Theater Substations Footbridge Middle Run Leyda Road Chestnut Ridge Road Oak Ridge Road Woods Cem Fritchleys Corners Morges Cem St Marys Ch Magnolia-Carrollton Road Harff Run

SANDY BROWN HARRISON ROSE

## MAPPED, EDITED, AND PUBLISHED BY THE GEOLOGICAL SURVEY

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1958. Field check 1960

Polyconic projection. 1927 North American datum
10,000-foot grid based on Ohio coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks,
zone 17, shown in blue

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

Land lines based on the Ohio River Base
Area north of Geographers Line lies within Congress Lands
north of Old Seven Ranges
Area south of Geographers Line lies within the Old Seven Ranges

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 20 FEET
DATUM IS MEAN SEA LEVEL

3½° MAGNETIC NORTH TRUE NORTH
APPROXIMATE MEAN DECLINATION, 1960

OHIO
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route State Route

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

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D.C.-1961-NS
MR 6431

MALVERN, OHIO
NW/4 CARROLLTON 15' QUADRANGLE
N4037.5—W8107.5/7.5
1960

U.S.G.S. FILE COPY TOPOGRAPHIC DIVISION JUN 23 1961
2575
USGS Historical File Topographic Division