



Maped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Topography by photogrammetric methods from aerial
photographs taken 1957. Field checked 1961
Polyconic projection. 1927 North American datum
10,000-foot grids based on Kansas coordinate system, north zone,
and Missouri coordinate system, west 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
Revisions shown in purple compiled from aerial photographs
taken 1972. This information not field checked
Map photoinspected 1977
No major culture or drainage changes observed

UTM GRID AND 1972 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

TO place on the predicted North American Datum 1983,
move the projection lines 4 meters north and
21 meters east as shown by dashed corner ticks

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
KANSAS GEOLOGICAL SURVEY, LAWRENCE, KANSAS 66044
AND DIVISION OF GEOLOGY AND LAND SURVEY
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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

WATHENA, KANS.—MO.
N 3945—W 9452.5/7.5
PHOTOINSPECTED 1977
1961
PHOTOREVISED 1972
AMS 7063 IV SW—SERIES V878