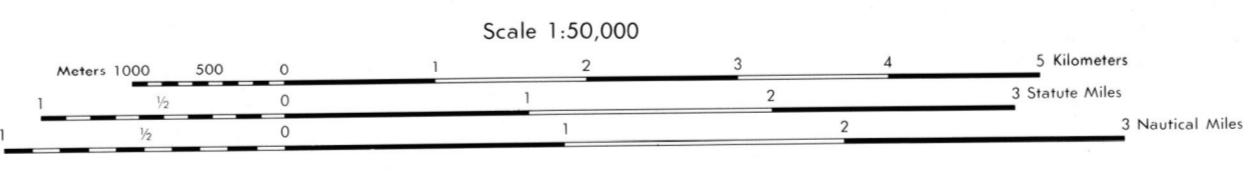


Prepared by the U.S. Geological Survey for publication by the Defense Mapping Agency Hydrographic/Topographic Center, Washington, D.C.

MAP INFORMATION AS OF 1979
ON THIS MAP, A LINE IS GENERALLY CONSIDERED AS BEING A MINIMUM OF 2.5 METERS (8 FEET) IN WIDTH. IN DEVELOPED AREAS, ONLY THROUGH ROADS ARE CLASSIFIED.

ROADS		LEGEND	
Divided highway with median strip		Power transmission line	
Primary, all weather, hard surface		Buildings	
Secondary, all weather, hard surface		Church, School	
Fair or dry weather, unimproved surface		Power substation	
Light duty, all weather, hard or improved surface		Windmill, Watermill	
Fair or dry weather, unimproved surface		Well, Tank	
Trail		Mine shaft	
Route markers: Interstate, Federal, State		Open pit mine or quarry	
Bridge: With superstructure, Without superstructure		Horizontal control station	
RAILROADS (Standard gauge 1.44m - 4'8 1/2")		Bench mark, monumented	
Multiple track		Bench mark, non-monumented	
Single track		Spot elevation in meters	
Nonoperating		Leaves, dms, dikes	
Railroad station: Location known, Location unknown		Bluffs, cliffs	
Cay line		Woodland	
Tunnel, Highway, Railroad		Scattered trees, Scrub	
BOUNDARIES		Vineyard, Orchard, plantation	
National, with monument		Intermittent lake, Dam; Earth, Masonry	
State, territory		Stream: Perennial, Intermittent	
County, parish		Marsh, swamp	
Civil township, town		Small rapids, Small falls	
Incorporated city, village, town		Large rapids, Large falls	
Reservation: National, State, Military			



Scale 1:50,000

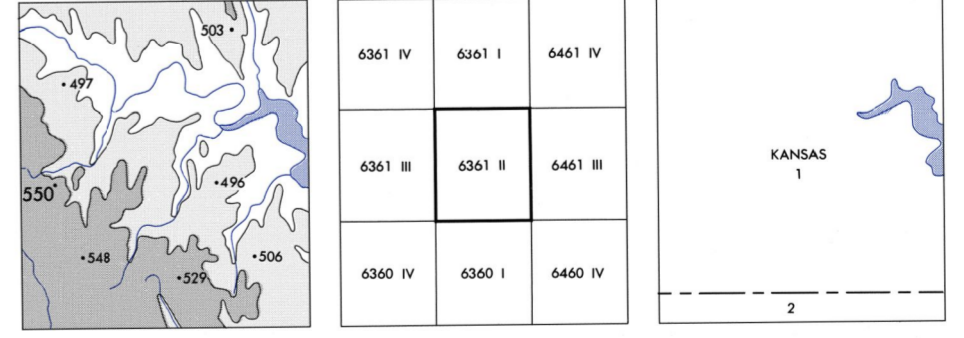
ELEVATIONS IN METERS
CONTOUR INTERVAL 10 METERS
SUPPLEMENTARY CONTOURS 5 METERS

SPHEROID CLARKE 1866
GRID 1,000 METER UTM ZONE 14 (BANK NUMBERED LINES)
10,000 FOOT STATE GRID TICKS, KANSAS NORTH AND SOUTH ZONES
PROJECTION UNIVERSAL TRANSVERSE MERCATOR
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM 1927 NORTH AMERICAN DATUM
CONTROL BY USGS AND NOS/NOAA
PREPARED BY U.S. GEOLOGICAL SURVEY
PRINTED BY
REPRINTED BY NSA 507

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

SAMPLE 100 METER GRID SQUARE	
	12 46
	13 45
100,000 m. SQUARE IDENTIFICATION	
NT	
GRID ZONE DESIGNATION	
14S	

ELEVATION GUIDE ADJOINING SHEETS BOUNDARIES



GRID NORTH
MAGNETIC NORTH
1980
G-M ANGLE
71.1° (130 MILLS)

TO CONVERT A MAGNETIC AZIMUTH TO A GRID AZIMUTH
ADD G-M ANGLE

TO CONVERT A GRID AZIMUTH TO A MAGNETIC AZIMUTH
SUBTRACT G-M ANGLE

THIS MAP IS RED-LIGHT READABLE
USERS SHOULD REFER CORRECTIONS, ADDITIONS, AND COMMENTS TO THE NSA OPERATIONAL HELP DESK:
1-800-455-6899; COMMERCIAL 314-263-4884; DSN 689-4884; OR WRITE TO DIRECTOR, NATIONAL GEOSPATIAL
INTELLIGENCE AGENCY, ATTN: ES, MAIL STOP L-8, 4600 SANGAMORE ROAD, BETHESDA, MD 20816-5002.

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