

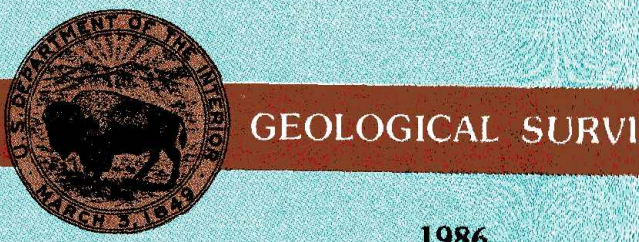
**Saint Joseph**  
MISSOURI-KANSAS

1:100 000-scale metric  
topographic map



30 X 60 MINUTE QUADRANGLE  
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



1986

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps  
dated 1961-1984. Planimetry revised from aerial  
photographs taken 1983 and other source data.  
Revised information not field checked.  
Map edited 1986.  
Projection and 10 000-meter grid, zone 15  
Universal Transverse Mercator  
25 000-foot grid ticks based on Missouri coordinate  
system, west zone and Kansas coordinate system  
north zone. 1927 North American Datum  
To place on the predicted North American Datum 1983 move  
the projection lines 3 meters north and 20 meters east.  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map.

CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9658
8	26.2467
9	29.5275
10	32.8083

To convert meters to feet  
multiply by 3.2808

To convert feet to meters  
multiply by 0.3048

DECLINATION DIAGRAM

The diagram shows a horizontal line representing the magnetic meridian (MN) and a vertical line representing the true meridian (TN). The angle between them is labeled 17 MILS. A scale below the line shows 0°S, 90°, and 180°.

UTM grid coordinate  
(EN) and 100 magnetic  
declination (M)  
at center of map  
Diagram is approximate

ADJOINING MAPS

1	2	3
4	5	
6	7	8

1 Falls City  
2 Marysville  
3 Tension  
4 Atchison  
5 Chilesburg  
6 Topeka  
7 Kansas City  
8 Marshall

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

**Topographic Map Symbols**

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street; trail
- Railroad: standard gauge, narrow gauge
- Bridge; overpass; underpass
- Tunnel: road, railroad
- Built up area; locality; elevation
- Airport; landing field; landing strip
- National boundary
- State boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U. S. public lands survey: range, township; section
- Rings, township; section line: protected
- Power transmission line; pipeline
- Dam; dam with lock
- Cemetery; building
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry; gravel pit
- Campground; picnic area; U. S. location monument
- Ruins; cliff dwelling
- Disturbed surface: arid; bare, bare, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake; perennial; intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request