



Saint Joseph

MISSOURI-KANSAS

1:100 000-scale
planimetric map

30 X 60 MINUTE QUADRANGLE
SHOWING

- 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.

NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet	Magnetic Declination		1	2	3	
1	3.2808	4° 15' N		4	5		
2	6.5617	4° 15' N					
3	9.8425	4° 15' N					
4	13.1234	4° 15' N					
5	16.4042	4° 15' N					
6	19.6850	4° 15' N					
7	22.9658	4° 15' N					
8	26.2466	4° 15' N					
9	29.5274	4° 15' N					
10	32.8082	4° 15' N					
To convert meters to feet multiply by 3.2808		UTM grid convergence (IGN) and 1986 magnetic declination (NAD) at center of map. Diagram is approximate.		1	2	3	
To convert feet to meters multiply by 0.3048				4	5		
				6	7	8	

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

USGS NMD HISTORICAL MAP
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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	Range, township, section line, projected
Power transmission line: pipeline	Dam; dam with lock
Cemetery; building	Windmill; water well; spring
Mine shaft; wet or dry mine; quarry; gravel pit	Campground; picnic area; U.S. location monument
Ruins; cliff dwelling	Distorted surface: strip mine, lava, sand
Contours: index, intermediate, supplementary	Bathymetric contours: index, intermediate
Stream, lake; perennial, intermittent	Rapid, large and small; falls, ledge 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