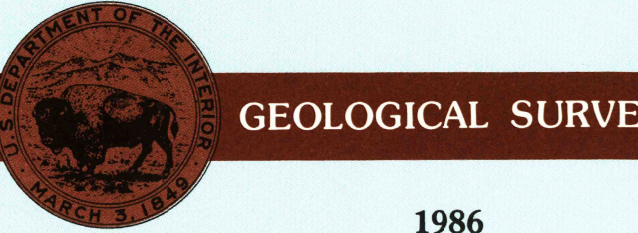




30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the United States Geological Survey
 Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1945-1985. Planimetry revised from aerial photographs taken 1983-85 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, east and central zones
 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 2 meters south and 12 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	1 2 3
1	3.2808	4 5
2	6.5616	6 7 8
3	9.8424	
4	13.1232	
5	16.4040	
6	19.6848	
7	22.9656	
8	26.2464	
9	29.5272	
10	32.8080	

To convert meters to feet multiply by 3.2808
 To convert feet to meters multiply by 0.3048

UTM grid convergence (G) and 1983 magnetic declination (M) at center of map
 Diagram is approximate

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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	
Route marker, interstate, U.S. State	
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	
Wellhead, water well, spring	
Mine shaft, pits or cover, mine, quarry, gravel pit	
Campground; picnic area; U.S. location monument	
Ruins, cliff dwelling	
Diagonal surface: strip mine, lava, 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	
Sinks; mangrove	
Gravel; quarry	

A pamphlet describing topographic maps is available on request

