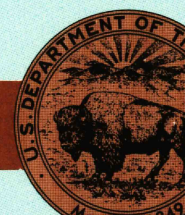


- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps dated 1966–1980. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1986.  
Projection and 10 000-meter grid, zone 16: Universal Transverse Mercator  
25 000-foot grid ticks based on Illinois coordinate system, west zone, Missouri coordinate system, east zone, and Illinois coordinate system, east zone  
1927 North American Datum  
To place on the predicted North American Datum 1983 move the projection lines 3 meters south and 7 meters east  
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 20 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS				
Meters	Feet		1	2	3	4	5
1	3.2808		1	2	3	4	5
2	6.5617		1	2	3	4	5
3	9.8425		1	2	3	4	5
4	13.1234		1	2	3	4	5
5	16.4042		1	2	3	4	5
6	19.6850		1	2	3	4	5
7	22.9659		1	2	3	4	5
8	26.2467		1	2	3	4	5
9	29.5276		1	2	3	4	5
10	32.8084		1	2	3	4	5
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 100 magnetic declination (MN) at center of map Diagram is approximate	1	2	3	4	5
To convert feet to meters multiply by 0.3048			1	2	3	4	5

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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	
Route marker: Interstate, U. S., State	
Railroad: standard gage, narrow gage	
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: protracted	
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	
Rainy cliff, scree, talus	
Disturbed surface: strip mine, levee, sand	
Contours: index, intermediate, supplementary	
Bathymetric contours: index, intermediate	
Stream, lake, perennial, intermittent	
Rapids, large and small; falls, large and small	
Area to be reclaimed; marsh, swamp	
Land subject to controlled foundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request