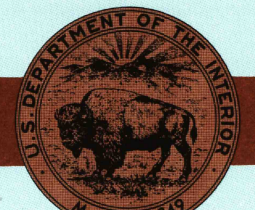



- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps dated 1959-1981. Planimetry revised from aerial photographs taken 1982-84 and other source data. Revised information not field checked. Map edited 1987  
Projection and 10 000-meter grid, zone 16: Universal Transverse Mercator  
25 000-foot grid ticks based on Illinois coordinate system, east zone. Kentucky coordinate system, south zone, and Indiana coordinate system, west zone  
1927 North American Datum  
To place on the predicted North American Datum 1983 move the projection lines 5 meters south and 5 meters east  
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 5 METERS  
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	4	5
1	3.2808		1	2	3	4	5
2	6.5617						
3	9.8425						
4	13.1234						
5	16.4042						
6	19.6850						
7	22.9659						
8	26.2467						
9	29.5276						
10	32.8084						
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1987 magnetic declination (MD) at center of map Diagram is approximate	1	2	3	4	5
To convert feet to meters multiply by 0.3048			6	7	8	9	10

FOR SALE BY U. S. GEOLOGICAL SURVEY  
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
AND U. S. TENNESSEE VALLEY AUTHORITY,  
CHATTANOOGA, TENN. 37401 OR KNOXVILLE, TENN. 37902

## 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  
Dike, 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; old dwelling  
Disturbed 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  
Scrub; mangrove  
Orchard; vineyard

A pamphlet describing topographic maps is available on request

