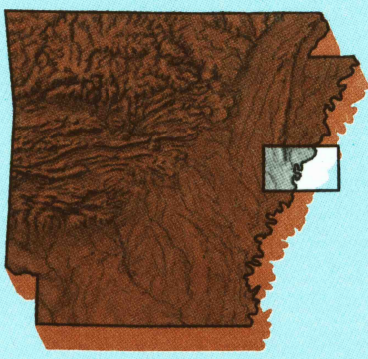
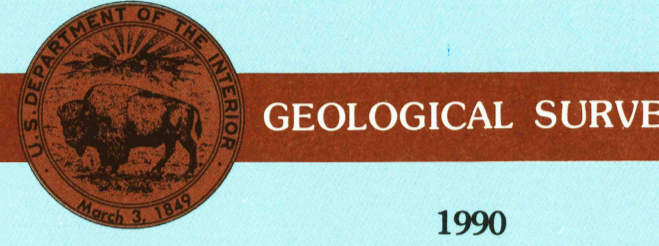


Helena

ARKANSAS-MISSISSIPPI
TENNESSEE
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



Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1958-1984. Planimetry revised from aerial photograph taken 1988 and other source data. Revised information not field checked. Map edited 1990.
Projection and 10 000-meter grid, zone 15, Universal Transverse Mercator.
25 000-foot grid ticks based on Mississippi coordinate system, west zone and Arkansas coordinate system, south and north zones 1927 North American Datum.
To place on the predicted North American Datum 1983, move the projection lines 8 meters north and 9 meters east.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

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	Faht		1	2	3	
1	3.2808		1	2	3	
2	6.5617		4	5	6	
3	9.8425		7	8	9	
4	13.1234					
5	16.4043					
6	19.6852					
7	22.9661					
8	26.2470					
9	29.5279					
10	32.8088					

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

UTM grid convergence (GTM and 1983 magnetic declination (MD) at center of map diagram is approximate

1 Swampy
2 Memphis West
3 Memphis East
4 Bradley
5 Holly Springs
6 De Witt
7 Clarksville
8 Oxford

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, road
Route marker: Interstate, U.S. State
Bridge: overpass, underpass
Tunnel: road, railroad
Built-up area: wooded, 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
Ruins: cliff dwelling
Distorted surface: strip mine, lava, sand
Contours: index, intermediate, supplementary
Bathymetric contours: index, intermediate
Stream, lake, reservoir, intermittent
Rapids, large and small: falls, large and small
Area to be submerged: marsh, swamp
Land subject to controlled inundation: woodland
Scrub, mangrove
Drainage: watercourse

