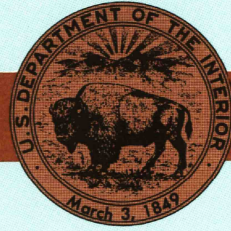




30 X 60 MINUTE QUADRANGLE
SHOWING

- 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 and DMA 1:50 000-scale
topographic maps dated 1970-1979. Planimetry revised from aerial
photographs taken 1981 and other source data. Revised information
not field checked. Map edited 1984.
Projection and 10 000-meter grid, zone 16; Universal Transverse
Mercator. 25 000-foot grid ticks based on Alabama coordinate
system, west and east zones.
1927 North American Datum
To place on the predicted North American Datum 1983 move
the projection lines 9 meters south and 2 meters west.
There may be private inholdings within the boundaries of the
National or State reservations shown on this map.

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

USGS AND HISTORICAL MAP
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
MAR 15 1989
REC'D FILE COPY

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet	Magnetic Declination		1	2	3	
1	3.2808		N	1	2	3	
2	6.5617			4	5		
3	9.8425			6	7		
4	13.1234			8	9		
5	16.4042						
6	19.6850						
7	22.9659						
8	26.2467						
9	29.5275						
10	32.8084						

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

UTM grid convergence (GN and 1984 magnetic declination (MM) at center of map
Diagram is approximate

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
County boundary
County boundary
National or State reservation boundary
Land grant boundary
U. S. public lands survey: range, township, section
Range, township, section line: protected
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: perennial, intermittent
Rapids, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Sedge, mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request

