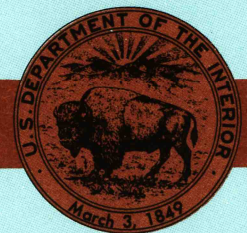


30 X 60 MINUTE QUADRANGLE
SHOWING

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



U. S. GEOLOGICAL SURVEY

1984
PHOTOINSPECTED 1990

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1956-1980. Planimetry revised from aerial photographs taken 1981 and 1983 and other source data. Revised information not field checked. Map edited 1984

1927 North American Datum (NAD 27). Projection and 10 000-meter grid: Universal Transverse Mercator, zone 16 25 000-foot ticks: Indiana coordinate system, west and east zones

The difference between NAD 27 and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875.

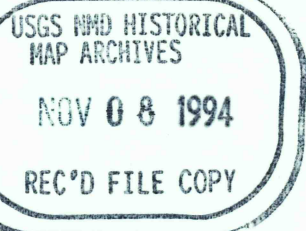
There may be private holdings within the boundaries of the National or State reservations shown on this map
Map photoinspected using 1987 and 1990 photographs
No major culture or drainage changes found

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	
2	6.5608		1	2	3	
4	13.1216		4	5		
6	19.6824		6	7	8	
8	26.2432					
10	32.8040					
To convert meters to feet multiply by 3.2808						
To convert feet to meters multiply by 0.3048						

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; trail		
Railroad 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		
Natural boundary		
State boundary		
County boundary		
Civil township 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		
Scrub mangrove		
Orchard; vineyard		

A pamphlet describing topographic maps is available on request

