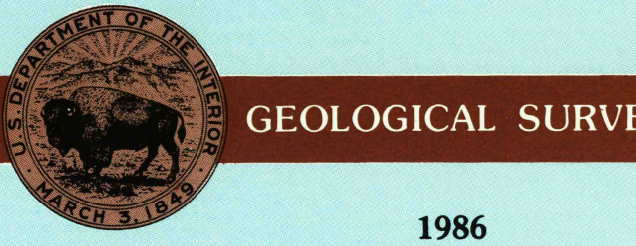


- Elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps  
dated 1973-1984. Planimetry revised from aerial  
photographs taken 1982 and other source data.  
Revised information not field checked.  
Map edited 1986.

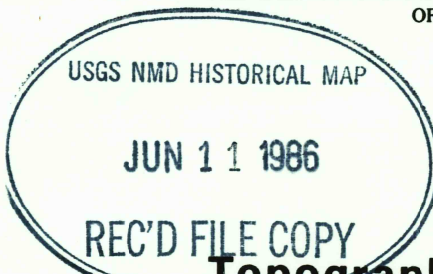
Projection and 10 000-meter grid, zone 15  
Universal Transverse Mercator  
25 000-foot grid ticks based on Texas coordinate  
system, central and north central zones  
1927 North American Datum  
To place on the predicted North American Datum 1983 move  
the projection lines 14 meters south and 20 meters east.  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map.

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	3.2808		1	2	3	
4	6.5617		4	5		
6	9.8425		6	7	8	
8	13.1234					
10	16.4042					
12	19.6850					
14	22.9659					
16	26.2467					
18	29.5276					
20	32.8084					
To convert meters to feet multiply by 3.2808		UTM grid convergence (EN) and 1986 magnetic declination (MD) at center of map. Diagram is approximate.	1 Tyler 2 Henderson 3 Shreveport South 4 Palestine 5 Natchitoches 6 Crockett 7 Lufkin 8 Leesville			
To convert feet to meters multiply by 0.3048						

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
OR RESTON, VIRGINIA 22092



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 gauge; narrow gauge	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	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	Compressed, picnic area; U. S. location monument	Ruin, 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; meadow	Orchard; vineyard
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A pamphlet describing topographic maps is available on request

