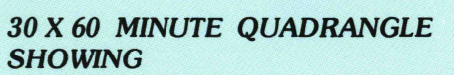


**1:100 000-scale metric  
topographic map**

**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



1991


Produced by the United States Geological Survey

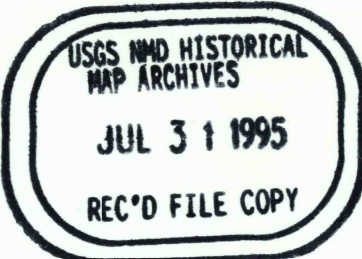
Compiled from USGS 1:24 000-scale topographic maps dated 1959-1981. Planimetry revised from aerial photographs taken 1984 and other source data. Revised information not field checked. Map edited 199

Projection and 10 000-meter grid, zone 14  
Universal Transverse Mercator  
25 000-foot grid ticks based on Texas coordinate  
system, north central zone  
1927 North American Datum  
To place on the predicted North American Datum 1983, move  
the projection lines 19 meters south and 29 meters east  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 192  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS	
Meters	Fath			1	2
1	3.2808	<div> <div>0° 49'</div> <div>116 MILES</div> <div>15 MILES</div> </div>		4	5
2	6.5617			1	2
3	9.8425			6	7
4	13.1234			8	9
5	16.4042			10	11
6	19.6850	<div> <div>UTM grid convergence</div> <div>(RM) and RM magnetic</div> <div>declination (NM)</div> <div>at center of map</div> <div>Diagram is approximate</div> </div>		1	Wichita Falls
7	22.9658			2	Gainesville
8	26.2467			3	Sherman
9	29.5275			4	Graham
10	32.8084			5	Mc Kinney
To convert meters to feet multiply by 3.2808				6	Mineral Wells
To convert feet to meters multiply by 0.3048				7	Fort Worth
				8	Dallas
				9	
				10	



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## Topographic Map Symbols

Primary highway, hard surface	
Secondary highway, hard surface	
Light duty road, principal street, other 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	
Spill up area; landfill, seewall	
Airport: landing field; landing strip	
National 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; art or cave; mine, quarry, gravel pit	
Cannegate-point area; U.S. location number	
Ruin; cliff dwelling	
Distorted surface: mine ruin, lake, sand	
Contours: index, intermediate, supplementary	
Recreation: 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	
Soil: swampy	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request.

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