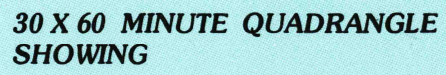
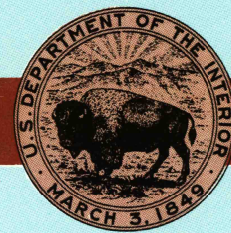


**1:100 000-scale  
planimetric map**



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



1985

Produced by the United States Geological Survey  
Compiled from USGS 1:24 000-scale topographic maps  
dated 1958-1980. Partially revised from aerial  
photographs taken 1983 and other source data  
Revised information not field checked  
Map edited 1985

Projection and 10 000-meter grid, zone 15  
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 11 meters south and 22 meters east

NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

| CONVERSION TABLE |         |
|------------------|---------|
| Meters           | Feet    |
| 1                | 3.2808  |
| 2                | 6.5617  |
| 3                | 9.8425  |
| 4                | 13.1234 |
| 5                | 16.4042 |
| 6                | 19.6850 |
| 7                | 22.9659 |
| 8                | 26.2467 |
| 9                | 29.5276 |
| 10               | 32.8084 |

Declination Diagram

GN  
MN

1°1' 6"

24 MILS 107 MILS

| ADJOINING MAPS |   |   |   |
|----------------|---|---|---|
| 1              | 2 | 3 | 4 |
| 4              | 5 | 6 | 7 |
| 6              | 7 | 8 | 9 |

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

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

1 McKinney  
2 Sulphur Springs  
3 Fortzanka  
4 Dallas  
5 Marshall  
6 Covington  
7 Tyler  
8 Henderson

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                                 |  |
| Route marker: Interstate, U. S. State                       |  |
| Railroad: standard gage, narrow gage                        |  |
| Railroad: overpass; underpass                               |  |
| Tunnel: road                                                |  |
| Shift up area; locally, elevation                           |  |
| Airport: landing field; landing strip                       |  |
| National boundary                                           |  |
| State boundary                                              |  |
| County boundary                                             |  |
| National or State reservation boundary                      |  |
| Land grant boundary                                         |  |
| U. S. public lands: range, township, section                |  |
| Range, township, section line: projected                    |  |
| Power transmission line, pipeline                           |  |
| Dam, dam with lock                                          |  |
| Canal; building                                             |  |
| Windmill; water well; spring                                |  |
| Mine shaft; well or cave; sink, quarry; gravel pit          |  |
| Obelisk; picnic area; U. S. location monument               |  |
| Ruins; cliff dwelling                                       |  |
| Distorted surface: strip mine; lava; sand                   |  |
| Contour, index, intermediate; supplementary                 |  |
| Reliefmark contours: index, intermediate                    |  |
| Stream, lake: perennial, intermittent                       |  |
| Rapid, 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.